#### DOCUMENT RESUME

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Descriptions

IDENTIFIERS \*Computer Games

#### **ABSTRACT**

Each of the more than 200 educational software programs developed by both commercial and public domain sources which are described is intended for use with one of the four microcomputers most frequently used for instructional purposes -- Atari, Apple, PET, and TRS-80. These descriptions are offered as a service for those who are just beginning to learn about microcomputer applications, and are not evaluations or recommendations. To promote effective use of the catalog, programs are listed by subject area, including art, business education, comprehensive (any subject), driver education, foreign language, language arts, mathematics, music, physical education, reading, science, social studies, and spelling. Grade level classifications are given, and descriptions are listed by grade level clusters (such as K-3), beginning with the lowest grade cluster and progressing to grade 12. Descriptions are organized in alphabetical sequence when there is more than one within a single cluster. Title, subject, grade level, computer system, description, and approximate cost are listed for each program. Both games and instructional programs are included. (LMM)

## SOFTWARE DESCRIPTIONS

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## MICRO-COMPUTERS

ATARI APPLE PET TRS-80

> James L. Olivero Staff Development, Ltd. 1982

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# DESCRIPTIONS

Currently the BIG-4--Atari, Apple, PET and TRS-80--make up the micro-computers most frequently used for instructional purposes. Software, unfortunately, is often difficult to locate. Presented here are some 200-plus software descriptions representing the BIG-4; the programs were developed both by commercial and public domain sources.

Clearly the listing is no where near complete; moreover the descriptions included here should neither be considered evaluations nor recommendations for purchase. No purchase, indeed, should ever be made before reviewing the software and noting its compatibility with the intended hardware system. The descriptions are offered solely as a service to those who are just beginning to learn about micro-computer applications.

# Index

To use the description catalog effectively, the reviewer should:

- Select the appropriate, alphabetized subject listing, e.g., art, business education, comprehensive, etc.
- 2) Select the appropriate grade level classification, e.g., K-2, K-6, 2-7. Descriptions are listed by grade level clusters beginning with the lowest grade or grade cluster and progressing to grade 12.
- 3) Select an appropriate description within a particular grade cluster.

  Descriptions are organized in alphabetical sequence when there is more than one description within a single cluster.

2	

TITLE: v	ideo Easel
SUBJECT:	Art GRADE LEVEL: 3-8
SYSTEM:	Atari 400/800 (Cassette) (Joystick Controllers)
DESCRIPTION	ON. This program is a unique combination of wide art both
COMPUTA	CN: This program is a unique combination of video art, both r-generated and user-generated, together with a computerized
version	of the game of "life."
The	e program uses a "main menu" and a "life menu" accessed by keyboard
Detaile	d user instructions are supplied. The "video art" portion contains
can be	variety of options. In the "drawing" mode, one or more joysticks used to draw patterns on the screen. "Painting" contains six pre-
program	med repeating designs.
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APPROXIMA	TE COST: \$39.95
TTTE.	
SUBJECT:	GRADE LEVEL:
SYSTEM:	· · · · · · · · · · · · · · · · · · ·
_	
DESCRIPTION	ON:
APPROXIMA:	TE COST:
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<del></del>	· · · · · · · · · · · · · · · · · · ·
TITLE:	
SUBJECT:_	GRADE LEVEL:
SYSTEM:	
DESCRIPTIO	ON:
20000	TTD COOTT
APPRUXIMA'I	TE COST:

-3-

TITLE: Mastertype	
CIR TECT. D	CDADE LEIDT
SUBJECT: Business Education	GRADE LEVEL: 7-12
SYSTEM: Apple II Plus 48K (Disk)	
DESCRIPTION: Learn to type while playing	ng a game. Enenmy words
attack base. Repel or destroy the atta	ckers by typing the word.
Complete with 17 lessons from simple le	etters through punctuation
marks, plus and editor for making lesso	ons.
APPROXIMATE COST: \$39.95	
TITLE:	
SUBJECT:	GRADE LEVEL:
SYSTEM:	
DESCRIPTION:	
ADD DOVI MARTIN COOR	
APPROXIMATE COST:	
TITLE:	
SUBJECT:	GRADE LEVEL:
SYSTEM:	
DESCRIPTION:	
	<del></del>
APPROXIMATE COST:	

TITLE: Mastertype
SUBJECT: comprehensive - any subject GRADE LEVEL: 6-12 SYSTEM: Apple II Applesoft 48K (Disk)
DESCRIPTION: This program consists of 17 lessons in arcade game format that present typing skills and give practice with them at levels from beginner (where to place fingers) to advanced.
APPROXIMATE COST: \$39.95
TITLE: Scripsit
SUBJECT: comprehensive - any subject GRADE LEVEL: 7-12 SYSTEM: TRS-80 Model I/III (Cassette) (Printer Required)
DESCRIPTION: Scripsit allows a student or teacher to compose and edit text passages on the video display and then to print the copy on a printer in any format desired. Text may be saved for later use on a tap or cassette or, if available, on a diskette.
APPROXIMATE COST: \$39.95
TITLE: Word Race
GUBJECT: comprehensive - any subject GRADE LEVEL: 10-12 GYSTEM: TRS-80 Model I/III 16K (Cassette)
DESCRIPTION: The program displays a race track on which each of two players has a car. The program displays a word and the first player to identify the correct meaning gets to move his/her car one square forward. Wrong guesses retards the player's car one square. The words included with the program are high school level, but may be changed easily.
APPROXIMATE COST: \$7.95

TITLE: Yellow Light	
CUR TECM.	CDADD 1 TUTT
SUBJECT: Driver Education	GRADE LEVEL: 7-12
SYSTEM: Commodore/PET 32K (Disk)	
DESCRIPTION. Allows students	•
DESCRIPTION: Allows students to experim	ment with various characteristics
of a road intersection having a traffic	light, and to determine its
safety. The factors which may be varied	d are intersection width, speed
limit, yellow light duration, drivers re	eaction time and decelaration
rate. The program first determines stud	dent time to react to a yellow
light as he views a car approaching an i	intersection. It simulates
situations defined by the student and co	omputes the "dilemma zone" for
each. The dilemma zone is one in which	it is neither safe to go nor stop.
APPROXIMATE COST: \$34.95	
TITLE:	
	CDADD FROM
SUBJECT:	GRADE LEVEL:
SYSTEM:	
DESCRIPTION:	
•	
APPROXIMATE COST:	
TITLE:	
SUBJECT:	CDADE TELEF
SYSTEM:	GRADE LEVEL:
JIJIET:	
DESCRIPTION:	
APPROXIMATE COST:	

TITLE: Word Search: Spanish
SUBJECT: Foreign Language GRADE LEVEL:Bgnr-Advncd
SYSTEM: Atari 400/800 16K (Cassette) (Joystick Controlled)
DESCRIPTION: Word Search: Spanish is a 3-program educational package.
The first two programs are joystick controlled and the last is a printer
version that allows the user a hard copy puzzle.
Ten common Spanish words are hidden among a 10X17 letter grid. The
words can be concealed vertically, horizontally, diagonally, forward
and backward. As the user finds the words, the English translation is
shown. Once all the Spanish words in the first program are found, there
are plenty more on the second program (over 300 words between the two).
APPROXIMATE COST: \$14.95 (Similar programs for the same price are also available for French and German)
The state of the s
1
TITLE: Spanish, French, Italian, German Vocabulary Drills
SUBJECT: Foreign Language GRADE LEVEL: 7-12
SYSTEM: Apple II Plus 48K (Disk)
DESCRIPTION: Provides practice in foreign vocabulary by means of 3 types
of drills: Matching, foreign-English, and English-foreign. The diskette
comes with sample lessons on it; however, the user may enter vocabulary
from any source.
APPROXIMATE COST: \$24.95
TITLE: French Hang-man
CUR TROW. Foreign Language
SUBJECT: Foreign Language GRADE LEVEL: 8-10 SYSTEM: Apple II 48K DOS 3.2 or 3.3 (Disk)
SYSTEM: Apple II 48K DOS 3.2 or 3.3 (Disk)
DESCRIPTION: French Hangman gives practice in translating words and
sentences, in both directions, between French and English. Program in-
cludes 50 words on each of six difficulty levels and 25 sentences on each
of seven levels. Students are allowed four wrong responses before the
correct answer is given. After work is completed on a word or sentence,
a cummulative percentage-correct report is given.
APPROXIMATE COST: \$29.95
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-8-

TITLE: Alicia-A Spanish Bilingual Reader
11110:
SUBJECT: Foreign Language GRADE LEVEL: 9-10
SUBJECT: Foreign Language GRADE LEVEL: 9-10 SYSTEM: Apple 48K DOS 3.2 or 3.3 (Disk)
DESCRIPTION: The program is a game using passages from "Alice in Wonder-
land." It practices translating between Spanish and English. The game
offers many sentences on which to work and also the choice of translating
from either Spanish or English. In the Alicia program, the target
sentence is first displayed in English and the parts are given for Spanish
translation. The game allows one letter of each word at a time blanks
are displayed for the corresponding English words. As the user guesses
letters, blanks are filled in. If an incorrect letter is guessed the
entire word is displayed in correct form. Students may translate sentences
APPROXIMATE COST: in either direction. \$29.95
TITLE:
CIP IPOm.
SUBJECT: GRADE LEVEL: SYSTEM:
DIDIEM:
DESCRIPTION:
DESCRIPTION.
APPROXIMATE COST:
TITLE:
CITO TECTI.
SUBJECT: GRADE LEVEL: SYSTEM:
SISIEM:
DESCRIPTION:
APPROXIMATE COST:

TITLE: Language Arts Sequences
SUBJECT: Language Arts GRADE LEVEL: K-2
SYSTEM: Apple II Plus 48K DOS 3.3
DESCRIPTION: The introductory Language Arts package offers structured
drill and practice for students in Letter Recognition and Alphabetization.
The sequences provide students with a highly motivating, success-oriented
approach to mastering basic skills.
APPROXIMATE COST: \$75
TITLE: Letters & Numbers
SUBJECT: Language Arts GRADE LEVEL: K-1
SYSTEM: PET 8K (Cassette)
DESCRIPTION: Letters & Numbers presents exercises in recognizing upper
and lower case letters and numbers. User may choose matching, sequence
completion and filling in the missing character drills.
APPROXIMATE COST: \$20
TITLE: Alphabet Keyboard
SUBJECT: Language Arts GRADE LEVEL: K-2
SYSTEM: TRS-80 Model III 32K (Disk)
DESCRIPTION: The program is designed to teach young students to type
letters in alphabetical order. Although no attempt is made to teach
finger positions or typing skills, the program introduces the student to
the computer keyboard. The program is self-pacing and automatic correcting
provides immediate feedback.
APPROXIMATE COST: \$34.50

TITLE: Customized Alphabet Drill
CLT Trom
SUBJECT: Language Arts GRADE LEVEL: K-2 SYSTEM: TRS-80 Model III 32K (Dick) 3.2 DOS
Apple II Applesoft 32K (Disk) 3.3 DOS
DESCRIPTION: The program offers help in alphabet sequencing The 26
letters of the alphabet are included. The program has four levels of
difficulty: 1) filling in letters missing in an alphabetical seguence:
2/ Illing in a letter between two letters: 3) filling in a letter before
a given letter and 4) filling in the letters before and after a given
letter.
APPROXIMATE COST: TRS-80 \$34.50
Apple II \$34.50
TITLE: Alphabet, Sequence and Alphabetizing
SUBJECT: Language Arts GRADE LEVEL: K-6
SUBJECT: Language Arts GRADE LEVEL: K-6 SYSTEM: TRS-80 Model III 32K (Disk)
Apple II Applesoft 32K (Disk) 3.3 DOS
Apple II Applesoit 32K (DISK) 3.3 DOS
DESCRIPTION: This program provides drill and practice to help students
develop the skills of alphabet sequence using the 26 letters of the alphabet and working with the
bet and working with the first, second, third and fourth letters bines
cions and sample exercises appear on the display screen. Scoring appears
at the end of each lesson.
APPROXIMATE COST: TRS-80 \$45
Apple II \$45
TITLE: Learn to Read
SUBJECT: Language Arts GRADE LEVEL: 1-3
SYSTEM: TRS-80 Model I 16K GRADE LEVEL: 1-3
DESCRIPTION: The student is since
DESCRIPTION: The student is given a sheet containing 20 numbered, small
pictures. The program presents a three-lettered word, and the student
enters the number of the picture corresponding to the word. If the answer
is correct, the next word is presented. If incorrect, the right answer
is presented and the next word appears on the screen. The words are
reviewed until all the words are correctly matched.
APPROXIMATE COST: \$9.95

TITLE: Word Families
CUP THOSE A STATE OF THE STATE
SUBJECT: Language Arts GRADE LEVEL: 1-4
SYSTEM: Apple II Applesoft 48K (Disk)
DESCRIPTION: Word Families gives practice in substituting a letter in a
word to spell another word. The teacher may select substitution of the
beginning or final consonant or medial vowel. The screen does not change
for incorrect responses, but such responses are recorded in the student's
disk file. A graphic reinforcer is provided each time the student answers
five presentations correctly.
ADDROVINAME COCM. COC. OF
APPROXIMATE COST: \$29.95
TITLE: MECC Elementary Volume 2
SUBJECT: Language Arts-Curriculum Area GRADE LEVEL: 1-6
SYSTEM: Apple II 3.2 DOS 48K (printer required)
DESCRIPTION: Six programs on one diskette provide ready-made spelling
lists, crossword puzzles or other word study activities. Teacher may
create mazes, crossword puzzles, mixed word lists or weekly spelling
lists with simple instructions built into the programs.
Good documentation comes with the program.
APPROXIMATE COST: \$29.95
APPROXIMATE COST: \$29.95
TITLE: Let's Spell
SUBJECT: Language Arts GRADE LEVEL: 2-3
SYSTEM: Atari 400/800 8K (Cassette)
DESCRIPTION: Lotic Spell is a series of A spelling
DESCRIPTION: Let's Spell is a series of 4 spelling programs designed for the early elementary level. The first 3 programs present 30 words each,
and the last is a test of all 90 words.
The words are presented in groups of 5, using a voice track. The
child is shown a word and asked to type it. Then a sentence using the
word is given and the student is asked to type in the word (without
seeing it on the screen). If a mistake is made, the computer immediately
tells the child, and he/she is asked to try again. After completing the
first 5 words, a review test is given, and after the child completes the
30-word lessons, another test is given.
APPROXIMATE COST: \$14.95
TANKAL COUL. TANKA

TITLE: Using A or An
SUBJECT: Language Arts GRADE LEVEL: 2-3
SYSTEM: Commodore/PET (Disk)
DESCRIBITION . Describ
DESCRIPTION: Provides a series of ten statements and user is to fill in
blanks with appropriate use of A and/or An. Score is maintained for the user.
4002.
APPROXIMATE COST: Public Domain
TITLE: MECC Elementary, Volume 5
SUBJECT: Language Arts/Prefixes-Curriculum Area GRADE LEVEL: 2-5
SYSTEM: Apple II 48K 3.2 DOS
1,100 101 101 101 101 101 101 101 101 10
DESCRIPTION: Diskette contains seven lessons on prefixes, with immediate
reinforcement. Some color graphics are included. Lessons are in two
typesreview and teaching. Each prefix is introduced with sufficient
examples to be self-teaching. Once started in a particular lesson, the
user is pretty much obligated to complete the task.
Extensive documentations and reproducable worksheets are provided
with the program.
APPROXIMATE COST: \$29.95
TITLE: Story Telling
SUBJECT: Language Arts CPADE LEVEL 2-6
GRADE LEVEL: 2-6 SYSTEM: TRS-80 Model I 16K (Cassette)
DESCRIPTION: Program is designed to practice recalling facts about a very
short story. The program presents a short one-paragraph story, then asks
six multiple-choice questions about it. As soon as the student answers
a question, a new item is presented. A report on number correct is given
after the questions. There are two different story formats, Program also
randomly changes several adjectives and nouns each time a story is pre-
sented. These features make it possible to present multiple exercises
which, although similar, involve somewhat different stories.
PPROXIMATE COST: \$9.95
TIMATERIE COST: 43.33

TITLE: Tutorial Comprehension
SUBJECT: Language Arts GRADE LEVEL: 2-6
SYSTEM: TRS-80 Model III 32K (Disk)
Apple II 32K (Disk) 3.3 DOS
DESCRIPTION: The program provides tutorials and practice lessons in five
key comprehension skills: Main Idea Details, Sequence Inference, Critical
Reading. All tutorials are written at levels 2 and 3 so vocabulary won't
1
prevent skills mastery. Reading levels in practice range from 2-6.
Depending on how quickly students learn, they are directed automatically
to either the next tutorial or to more practice.
APPROXIMATE COST: TRS-80 \$7.98
Apple II \$7.98
MIMIE. Language/Peading Perelement Description
TITLE: Language/Reading Development Program
SUBJECT: Language Arts GRADE LEVEL: 2-12
SYSTEM: Apple II Plus DOS 3.3 (Disk)
DESCRIPTION: This series is designed to develop speed while maintaining
and improving managing billing
and improving perception skills, increase concentration, promote spelling
and precise response procedures, develop vocabulary through word analogies
develop content area spelling, allow teacher to deveop own spelling and
vocabulary lists.
Includes content words from math, science and social studies.
Responses require complete, accurate answers, not multiple choice
selections. Includes 150 page instruction manual with worksheets, study
guides and word lists.
guides and word lists.
APPROXIMATE COST: Complete Program of 4 Language/Reading Diskettes \$250
TITLE: Agreement of Subject and Verb
SUBJECT: Language Arts GRADE LEVEL: 3-6
SYSTEM: Commodore/PET_8K (Cassette)
DESCRIPTION: Program procents a contents acceptaining a blank in the
DESCRIPTION: Program presents a sentence containing a blank in the place
of the verb; it also displays two choices of verbs to complete the sen-
tence and asks the student for his/her choice. Two locomotives, one of
student, the other of the computer, are advanced according to the respon-
ses. If the student responds correctly, his/her locomotive is advanced.
The incorrect answer results in the advancement of the computer's loco-
motive.
APPROXIMATE COST: \$7.95

SUBJECT: Language Arts GRADE LEVEL: 3  SYSTEM: Apple Applesoft 32K (Disk)  TRS-80 16K (Cassette)  DESCRIPTION: This program drills the student on the identification noun types. A noun is placed in either the box labeled Person or or Thing. The student then moves the word to the box giving the word correct category by pressing the Space Bar and then pressing Enter Correct answers are rewarded with a new word. Incorrect answers rethe student to keep trying until the correct answer is presented. Income are chosen randomly.  APPROXIMATE COST: Cassette or disk \$7.95  Six-program disk package \$24.95	DESCRIPTION: This program is designed to help improve reading sion. The student plays the role of a cub reporter who goes to scene. The situation is described in play format. The student wers about eight multiple-choice questions about that situation answers cause the program to present the next item; incorrect followed by the correct unswer and then the next question.  APPROXIMATE COST: \$9.95  TITLE: Person, Place or Thing  SUBJECT: Language Arts GRADE LEVEL: SYSTEM: Apple Applesoft 32K (Disk)  TRS-80 16K (Cassette)  DESCRIPTION: This program drills the student on the identification noun types. A noun is placed in either the box labeled Person or Thing. The student then moves the word to the box giving the correct category by pressing the Space Bar and then pressing Er Correct answers are rewarded with a new word. Incorrect answer the student to keep trying until the correct answer is presente nouns are chosen randomly.  APPROXIMATE COST: Cassette or disk \$7.95  Six-program disk package \$24.95  TITLE: Compu-Read		ub Reporter		
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Correct category by pressing the Space Bar and then pressing Enter Correct answers are rewarded with a new word. Incorrect answers rethe student to keep trying until the correct answer is presented. Incommon are chosen randomly.  APPROXIMATE COST: Cassette or disk \$7.95  Six-program disk package \$24.95  CITLE: Compu-Read  CUBJECT: Language Arts GRADE LEVEL: 3-YSTEM: Apple Applesoft 48K (Disk)  ESCRIPTION: This program is intended to improve comprehension and correct answers rether the program and correct answers rether the student to the student	or Thing. The student then moves the word to the box giving the correct category by pressing the Space Bar and then pressing Er Correct answers are rewarded with a new word. Incorrect answer the student to keep trying until the correct answer is presente nouns are chosen randomly.  APPROXIMATE COST: Cassette or disk \$7.95  Six-program disk package \$24.95  FITLE: Compu-Read	un types	A noun is place	ed in either t	the how labeled Person or
Correct answers are rewarded with a new word. Incorrect answers rethe student to keep trying until the correct answer is presented.  APPROXIMATE COST: Cassette or disk \$7.95  Six-program disk package \$24.95  CITLE: Compu-Read  CUBJECT: Language Arts GRADE LEVEL: 3-  Apple Applesoft 48K (Disk)  ESCRIPTION: This program is intended to improve comprehension and	Correct category by pressing the Space Bar and then pressing Er Correct answers are rewarded with a new word. Incorrect answer the student to keep trying until the correct answer is presente nouns are chosen randomly.  APPROXIMATE COST: Cassette or disk \$7.95 Six-program disk package \$24.95  FITLE: Compu-Read	Thing.	The student then	moves the wor	rd to the box giving the w
TITLE: Compu-Read  CUBJECT: Language Arts YSTEM: Apple Applesoft 48K (Disk)  ESCRIPTION: This program is intended to improve comprehension and the student answers are rewarded with a new word. Incorrect answers retained to improve comprehension and the student to keep trying until the correct answer is presented. Incorrect answers retained to improve comprehension and the student to keep trying until the correct answers retained to improve comprehension and the student to improve com	the student to keep trying until the correct answer is presente nouns are chosen randomly.  APPROXIMATE COST: Cassette or disk \$7.95 Six-program disk package \$24.95  FITLE: Compu-Read	Trect ca	regory by pressing	the Space Pa	ar and then procedur Enter
APPROXIMATE COST: Cassette or disk \$7.95 Six-program disk package \$24.95  PITLE: Compu-Read  UBJECT: Language Arts GRADE LEVEL: 3- YSTEM: Apple Applesoft 48K (Disk)  ESCRIPTION: This program is intended to improve comprehension and	APPROXIMATE COST: Cassette or disk \$7.95 Six-program disk package \$24.95	rrect an	swers are rewarded	d with a new w	ord Incorrect anguers
APPROXIMATE COST: Cassette or disk \$7.95 Six-program disk package \$24.95  PITLE: Compu-Read  UBJECT: Language Arts GRADE LEVEL: 3- YSTEM: Apple Applesoft 48K (Disk)  ESCRIPTION: This program is intended to improve comprehension and	APPROXIMATE COST: Cassette or disk \$7.95 Six-program disk package \$24.95  FITLE: Compu-Read	e studen	t to keep trying u	intil the corr	ect answer is presented
APPROXIMATE COST: Cassette or disk \$7.95 Six-program disk package \$24.95  CITLE: Compu-Read  UBJECT: Language Arts GRADE LEVEL: 3- YSTEM: Apple Applesoft 48K (Disk)  ESCRIPTION: This program is intended to improve comprehension and	APPROXIMATE COST: Cassette or disk \$7.95 Six-program disk package \$24.95  FITLE: Compu-Read	uns are	chosen randomly.		to dibuct is presented.
Six-program disk package \$24.95  CITLE: Compu-Read  UBJECT: Language Arts GRADE LEVEL: 3-  YSTEM: Apple Applesoft 48K (Disk)  ESCRIPTION: This program is intended to improve comprehension and	Six-program disk package \$24.95  FITLE: Compu-Read				
Six-program disk package \$24.95  CITLE: Compu-Read  UBJECT: Language Arts GRADE LEVEL: 3-  YSTEM: Apple Applesoft 48K (Disk)  ESCRIPTION: This program is intended to improve comprehension and	Six-program disk package \$24.95  FITLE: Compu-Read				
Six-program disk package \$24.95  CITLE: Compu-Read  UBJECT: Language Arts GRADE LEVEL: 3-  YSTEM: Apple Applesoft 48K (Disk)  ESCRIPTION: This program is intended to improve comprehension and	Six-program disk package \$24.95  FITLE: Compu-Read				
Six-program disk package \$24.95  CITLE: Compu-Read  UBJECT: Language Arts GRADE LEVEL: 3-  YSTEM: Apple Applesoft 48K (Disk)  ESCRIPTION: This program is intended to improve comprehension and	Six-program disk package \$24.95  FITLE: Compu-Read	DOVINA	C COOM C		
CITLE: Compu-Read  UBJECT: Language Arts GRADE LEVEL: 3- YSTEM: Apple Applesoft 48K (Disk)  ESCRIPTION: This program is intended to improve comprehension and	FITLE: Compu-Read	MOXIMATE			
UBJECT: Language Arts GRADE LEVEL: 3- YSTEM: Apple Applesoft 48K (Disk)  ESCRIPTION: This program is intended to improve comprehension and			Six-progr	am disk packa	ge \$24.95
UBJECT: Language Arts GRADE LEVEL: 3- YSTEM: Apple Applesoft 48K (Disk)  ESCRIPTION: This program is intended to improve comprehension and					
UBJECT: Language Arts GRADE LEVEL: 3- YSTEM: Apple Applesoft 48K (Disk)  ESCRIPTION: This program is intended to improve comprehension and					
UBJECT: Language Arts GRADE LEVEL: 3- YSTEM: Apple Applesoft 48K (Disk)  ESCRIPTION: This program is intended to improve comprehension and				**************************************	
UBJECT: Language Arts GRADE LEVEL: 3- YSTEM: Apple Applesoft 48K (Disk)  ESCRIPTION: This program is intended to improve comprehension and			mpu-Read		
YSTEM: Apple Applesoft 48K (Disk)  ESCRIPTION: This program is intended to improve comprehension and	SUBJECT: Language Arts	LE: Cor	.pu muu		
YSTEM: Apple Applesoft 48K (Disk)  ESCRIPTION: This program is intended to improve comprehension and		LE: Cor			
ESCRIPTION: This program is intended to improve comprehension and	GRADE LEVEL:		בלבה ממבנימתב.		GRADE LEVEL: 3
	Appre Appresort 48K (Disk)	JECT: I		. /=! ::	
		JECT: I		K (Disk)	
		JECT: I	Apple Applesoft 48		

DESCRIPTION: This program is intended to improve comprehension and retension. This includes 4 programs: Character Recognition flashes groups of three letters at a chosen speed; the student tries to duplicate them. If successful, program reports this and increases speed on next trial. If answer is incorrect, program repeats the letters and goes on to the next item. High Speed Word Recognition is similar to first program except that is uses full words. Synonyms and Antonyms flashes a word and possible synonyms and antonyms; the object is to type in the correct synonym. Sentence Comprehension flashes a sentence and asks a question about the information contained. If answered correctly, program moves on; if not, APPROXIMATE COST:

answer is given before preceding.

TITLE: Spelling Package
SUBJECT: Language Arts GRADE LEVEL: 3-12
SYSTEM:Commodore/PET 8K (Disk)
DESCRIPTION: The spelling package verbally drills students on spelling
words chosen by the teacher. This is accomplished with the use of audio
tapes prepared by the teacher and played by a computer controlled tape
recorder. The user must have an audio cassette tape recorder with a re-
mote jack and a microphone. The Spelling Package includes a tape recorder
interface that plugs into the set and controls recorder operation.
ADDDOVINATIO COCT. \$90.05
APPROXIMATE COST: \$89.95
I
TITIF: Adjactive Berevitie
TITLE: Adjective Recognition
SUBJECT: Language Arts GRADE LEVEL: 4-7
SUBJECT: Language Arts GRADE LEVEL: 4-7 SYSTEM: Apple w/Recorder Applesoft 32K (Disk)
Apple w/Recorder Applesort 32K (Disk)
DESCRIPTION. Program dignique a content the silver of
DESCRIPTION: Program displays a sertence then places its first word in
a box. The student moves words of the sentence through the box until he/
she recognizes an adjective, then presses Enter to indicate recognition.
If the student did choose the correct word in the sentence, then the
robot on the screen nods yes, and program moves to another sentence. If
the response is incorrect, the robot shakes his head, and the student continues searching. Unlimited trials are given.
concerndes searching. Unfinited trials are given.
APPROXIMATE COST: Individually \$7.95
6 program package \$24.95
o program package \$24.95
TITLE: Comma
- Constant
SUBJECT: Language Arts GRADE LEVEL: 4-8
SYSTEM: Commodore/PET 8K (Cassette)
DESCRIPTION: This is a game involving comma usage in sentences. The
program is a multi-player game. A player is to decide whether or not a
comma should follow a given word in a sentence by answering yes or no.
On the student's first error, the program gives a set of usage rules (and
scores the answer as wrong). On second, incorrect answer, it allows
another trial. If still in error, the next student is given a turn on a
new sentence. Provisions are included for teacher to enter different
sentences. The program reports a player's score after his/her turn and
the overall standings at the end.
APPROXIMATE COST: \$7.95

-16-

TITLE: Subjects
Jun Jects
SUBJECT: Language Arts GRADE LEVEL: 4-8
SUBJECT: Language Arts GRADE LEVEL: 4-8 SYSTEM: Commodore PET (Disk)
GONALIO GOTO TELL ADISK!
DESCRIPTION: This program asks the student to review a set of seven
Joea comercia dita to bick our the cibboot in the control
1 source 15 recorded at the end of the program The was at
Jave die diel all Opportunity to see the cubicat was in
variety of positions.
APPROXIMATE COST: Public Domain
TITLE: Compu-Spell
SUBJECT: Language Arts GRADE LEVEL: 4-9
SYSTEM: Apple Applesoft 48K (Disk)
DESCRIPTION: Spelling is practiced while being monitored. The computer
Product words in sentence context. The word is then blocked and is
Student types It in. The program doorn't warmend ask and
are about the program records performance for the total
The state of the s
800-1,700 words each.
APPROXIMATE COST: program and one word disk \$39.95
additional word disks \$19.95 each
·
FITLE: Smarty the Computer
SUBJECT: Language Arts GRADE LEVEL: 4-11
SYSTEM: TRS-80 (Disk)
DESCRIPTION: There are three small programs included: Memory Game.
Politing Deel and Elen-d-Sketch. These games warm in discipling
MOMOVEL COMO TO COMO
accention; speed at typing is also hereficial
the user competes against the computer.
PPROXIMATE COST: Public Domain

TITLE: EDU-DISKS (Vocabulary)	
SUBJECT: Language Arts GRADE LEVE	T . 4 3 0
SUBJECT: Language Arts GRADE LEVE SYSTEM: Apple II Plus, Atari, TRS-80	L: 4-12
SISTEM. Apple II Flus, Atall, IRS-60	
DESCRIPTION: An exciting interweave of words and graphics, u	ised in a
mutual reinforcement mode. The program provides practice in	vocabulary
mutual reinforcement mode. The program provides practice in and other language skillsflexibility designed into three l	evels of
difficulty.	CVCIS OI
The reinforcement approach uses point scoring for raising	g motivation.
yet the programs are interactive in that they allow for indiv	vidual vari-
ation of answers whenever appropriate.	radar varr
APPROXIMATE COST: Unknown	
TITLE: Read and Spell	
CUD TOOM	-
SUBJECT: Language Arts GRADE LEVE	L: <u>4-12</u>
SYSTEM: TRS-80 (Disk)	
PROPERTIES.	
DESCRIPTION: This program is essentially a game with different	nt levels
of difficulty. Words are flashed on the screen for a one-sec	ond review
The user is then expected to spell one of the words in the li	st depending
on the uses offered. The user receives points depending upo	n the number
of uses required. The student competes against the computer.	
	_
APPROXIMATE COST: Public Domain	
	<del></del>
TITLE: English Usage Exercises	
IIILE: English Usage Exercises	
SUBJECT: Language Arts GRADE LEVE	T. 50
SYSTEM: _ TRS-80 Model I or III 16K (Cassette)	7: 2-8
SISTEM: TRS-80 Model I Of III 16K (Cassette)	·
DESCRIPTION: These programs drill students in written usage	by displaying
sentences containing incomplete adverbs, nouns, verbs, or pro	
asking the student to enter the correct endings.	nours and
Jan 2000 Charles	
<del></del>	
APPROXIMATE COST: \$149.95	

TITLE: Alpine Skier	
SUBJECT: Language Arts	GRADE LEVEL: 5-9
SYSTEM: Apple II or TRS-80 (Disk)	
DESCRIPTION: Uses graphics to show a sk	ier negotiating a slalom ski
course while improving comprehension ski	lls by requiring the user to
1) determine fact and opinion by identify	ving which sentence in each pair
represents the fact or opinion. 7) read in	phrases and identify the si
part of each phrase as the cause or effect	ct, 3) determine which word or
phrase does not belong in each set of 4 of	or 5 sets of words or phrases
and 4) determine whether 2 sentences have	e the same or different meanings.
Difficulty increases as the student	progresses.
Each of 4 programs consists of 36 ra	aces.
APPROXIMATE COST: Set of 4 programs \$11:	3.75
MIMIE. C.	
TITLE: Grammar Problems for Practice	
CIP IECD.	
SUBJECT: Language Arts SYSTEM: Apple II Plus 48% DOS 2 2	GRADE LEVEL: 5-9
SYSTEM: Apple II Plus 48K DOS 3.3	
DESCRIPTION	
DESCRIPTION: This series attacks problem	areas in homonyms, verbs,
pronouns, modifiers and spelling. Each m	odule contains a pre-test,
motivating practice, and a post-test.	
	<del></del>
APPROXIMATE COST: \$80 each	
Combined Grammar Serie	c \$275
Gombined Granunal Serie	\$ \$3/5
FITLE: State & Capitols	
SUBJECT: Language Arts	CDADD TRIME
SYSTEM: Commodore/PET (Disk)	GRADE LEVEL: 5-9
DESCRIPTION: There are two formats include	dod in the new of
is multiple choice and the other is a fill	ded in the program. One format
the identification of states and capitols	the blank. In addition to
required. Correctness is indicated in per	there is also correct spelling
well as right and wrong answers.	centage of correct responses as
The second anionolog	
PPROXIMATE COST: Public Domain	

TITLE: Tennis Anyone?	
SUBJECT: Language Arts	GRADE LEVEL: 5-9
SUBJECT: Language Arts SYSTEM: Apple II or TRS-80 DOS 3.3	
DESCRIPTION: While the computer simulates a	a tennis game the student is
asked to select the correct affix from a lis	st given on the screen. A
tennis scoring format is used to show the re	esults. There are 6 programs
in the total package. The program consists	of 18 games3 rounds of 6
games each, any round of which may be presel	lected by the students.
	<del></del>
APPROXIMATE COST: Individual packages \$29.9	95
Total package \$170.7	
TITLE: Computer Poetry	
CID TROM.	00100
SUBJECT: Language Arts	GRADE LEVEL: 7-12
SYSTEM: Commodore/PET (Disk)	
DESCRIPTION: The program is written for use	are the have interests in
poetry ranging from great to little, or even	unknown Information about
poetry is offered and opportunities to write	noetry are made available
poetry 15 offered and opportunities to write	: poetry are made available.
APPROXIMATE COST: Public Domain	
TITLE: Crossword Magic	
eriss. crossword magic	
SUBJECT: Language Arts	GRADE LEVEL: 7-12
SYSTEM: Apple Silentype (Requires a printe	
DESCRIPTION: Provides drill on word recognit	ion, vocabulary, spelling,
and typing skills. User can supply words fr	com any subject. Crossword
Magic automatically interconnects them to fo	orm a puzzle.
	1
ADDDOVINAME COCM. Dichele	1-1-1- 670 OF
APPROXIMATE COST: Diskette package with boo	KIET \$/9.95

TITLE: Junior/Senior High Vocabulary Programs	3
Cup more Languages	
SUBJECT: Language Arts	GRADE LEVEL: 7-12
SYSTEM: Apple II Plus or Commodore (Disk)	
DESCRIPTION: Each vocabulary program contains	approximately 30 words
which have been rated for grades /-12. Each t	ime the program is were the
computer randomly selects 8 words and asks the	Student to choose the
most appropriate definition from among 5 words	If the student
incorrectly, the computer puts the word in a s	ti the student responds
dent to use the contextual clue to try again.	entence and asks the stu-
to the contextual citie to try again.	
A DO DO LIVE TO THE COLUMN TO	
APPROXIMATE COST: Jr. High Diskette \$180	
Sr. High Diskette \$180	
TITLE: Verbs	
SUBJECT: Language Arts	
	GRADE LEVEL: 7-12
SYSTEM: TRS-80 Model II (Disk)	
DECONTRACY	
DESCRIPTION: This program teaches the differen	nce between transitive and
Lincialistive sentences. Illustrates how the qu	petione "who?" and/an
what: help to make a sentence transitive. Up	to 20 statements are
offered.	
ADDDOVINATE COCT. D.1.1.	
APPROXIMATE COST: Public Domain	
TITLE: Anagrams V and VI	
SUBJECT: Language Arts	
	GRADE LEVEL: 9-12
SYSTEM: Commodore/PET Cassette Drive 8K Minim	um
DESCRIPTION: Designed to provide a challenge f	or high school students.
The program reacures large type, displayed clue	s when needed makes miles
ir desired, adjusted time intervals for answers.	and 5 levels of difficulture
hary of the words used are those found in the M	icrophys Vocabulary and
Spelling Programs.	vocabulary and
APPROXIMATE COST: \$15	

TITLE: Readings in Literature	· · · · · · · · · · · · · · · · · · ·
SUBJECT: Language Arts	GRADE LEVEL: 10-12
SYSTEM: Apple Applesoft 32K (Disk)	
DESCRIPTION: Program familiarizes student with	n 27 well-known passages
from English literature. Two modes are provide	ed: Familiarization:
Presenting two lines of text with one word omi	tted in second line. The
student responds with the first letter of the	missing word. If wrong, the
program goes into "Hangman" mode for 3 tries a	t finding the missing word
by guessing letters. The graphic display shrinks	on each turn. If correct,
gives positive feedback, then drops line and sh	
Mode presents one line at a time (no preview).	A performance report is
given after each mode.	
APPROXIMATE COST: \$29.95	
TITLE: SAT Vocab	
SUBJECT: Language Arts	GRADE LEVEL: 11-12
SYSTEM: Commodore/PET (Cassette or Disk)	
DESCRIPTION: Provides two di ferent approaches	to drilling students in
preparation for the vocabulary portions of the	Scholastic Aptitude Test.
One approach is interactive; the other approach	is the "deferred mode"
(generating homework assignments and quizzes).	
The student is provided with the correct a	inswer if he chooses the
wrong one.	
	<del></del>
ADDROVINAMO COCM. C10 and an C100 Carrella C	10
APPROXIMATE COST: \$10 each or \$180 for set of	10
 	<del></del>
TITLE:	
CIM THOM.	
SUBJECT:	GRADE LEVEL:
SYSTEM:	
DESCRIPTION:	
APPROXIMATE COST:	

TITLE: 1	Library Skills: What's There and How To Find It
SUBJECT:	Library GRADE LEVEL: 4-12
SYSTEM:	Library GRADE LEVEL: 4-12 Apple II 32K (Applesoft)
	UNATE II 35V (WDDIesoir)
DESCRIPTI	ON: At the construit City
toridont	ON: At the conclusion of the program, students should be able
co. rdent	Ily and locate fiction, non-fiction and biographies, use the
Dewey Dec	imal System to locate non-fiction books use the gard catalogue
to locate	books, and know how to locate and use reference books.
APPROXIMA	TE COST: Unknown
i	
TITLE: L	ibrary Skills
SUBJECT:	Tiburan
	Library GRADE LEVEL: 4-8
SYSTEM: _	Apple II Applesoft 32K 3.2 or 3.3 DOS
DESCRIPTION	ON: Introduces and gives practice with various library skills.
Inci uding	what's there and how to find materials and card catalan
Exercises	are given for reinforcement of understanding. The program
concludes	with a mastery quiz for which the results are reported.
	Its to die leported.
APPROYTMAT	TE COST: \$24.95
INTIWATINI	E COST: 324.95
TITLE:	
SUBJECT:	GRADE LEVEL:
SYSTEM:	
DESCRIPTIO	N:
<del></del>	
PPROXIMATI	COST:

TITLE: Count to 30 & Count to ?
TITLE: COURT OF TO COURT OF T
SUBJECT: Mathematics (Counting) GRADE LEVEL: K-1
SYSTEM: Apple II 32K DOS 3.3
DESCRIPTION: This is a counting program for primary only. Symbols appear
on the screen in rows of 10. Student may count as the symbols appear.  This program could be used for a whole class simultaneously. Teacher
may also teach the name of the symbols; \$, *, &, etc.
APPROXIMATE COST: Pulbic Domain
ATTIONTIME COST 42220 SOMETH
TITLE: Hurkle
SUBJECT: Mathematics (Geometry) GRADE LEVEL: K-3
SYSTEM: Commodore/PET 8K (Cassette)
- CONTROL OF THE CONT
DESCRIPTION: The goals of this game are to provide practice in the use
of a coordinate system, to develop logical thought processes, and to rein-
force the concepts of left, right, up and down. The student tries to
find the missing Hurkle which is hidden on A 10X10 grid. The student
enters his/her quess as a pair of coordinates. The named grid point is
lightened, and both visual and auditory clues are given to indicate the direction of the Hurkle's hiding place. When the Hurkle is found, a
flashing picture of Hurkle is shown.
APPROXIMATE COST: \$5.00
TITLE: The Math Machine
SUBJECT: Mathematics GRADE LEVEL: K-12
SYSTEM: Apple II Applesoft 48K (Disk)
DESCRIPTION: This program allows the user to practice arithmetic with a
game reinforcer. It gives practice in working elementary math problems
ranging from pre-math skills to division. Teachers can assign an approp-
riate skill level and reinforcement schedule for the student. The student
works through the math problems and is then reinforced with a game of his/
her choice. If the student gives two consecutive incorrect responses on
any problem, the program will respond with the correct answer.
Graphics and sound are used extensively throughout the program.
·
APPROXIMATE COST: \$79.95
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TITLE:	nroid Nim		
SUBJECT:	Mathematics (Game)	GRADE	E LEVEL: 1-3
SYSTEM:	Commodore / PET (Disk)		
DESCRIPTION	ON: This program is se	t up in such a way that	the computer
Competes	ayainst the user. The	Student tries to mainin	ulato the weepens
so he/she	is able to eliminate the	he last Nim on a series	of three columns.
APPROXIMAT	E COST: Public Domain		
TITLE: B	Oves		
1111E: D	JACS		
SUBJECT:_	Mathematics (Add & Subt/	Intro to Algebra) GRADE	LEVEL: 1-3
SYSTEM: _	Apple II 32K DOS 3.3		
DESCRIPTIO	N: Students are introd	luced to algebraic equat	tions using simple
single un	git addition and substra	Ction problems. Studen	at selects which
numbers 11	the equation will be t	he unknown. Student se	lects addition or
Subtract10	on. Concept of "1 more"	is also demonstrated a	as the student
accumulate	s "right" answers.		
Color	graphics, immediate fe	edback,	
APPROXIMAT	E COST: Public Domain		···
			<del></del>
TITLE: Hi	ckory-Dickory Clock		
	Mathematics	GRADE	LEVEL: 1-3
SYSTEM:	Atari 400 (Cassette)	<del></del>	
DESCRIPTION	: This program places	the face of a clock on	a display screen
and the na	nds are placed at variou	AS locations. The stud	ent has the
options to	Pick from: Hours, half-	-hours and minutes S	tudont con in-
options.	number of tries he/she	would like to take on	each of the
options.			
DDDOVINA	COCM		
APPROXIMATE	COST: \$14.95	70	

CITLE: Legacy
SUBJECT: Mathematics GRADE LEVEL: 1-3
SYSTEM: Apple Applesoft 32K (Disk)
DESCRIPTION: A program designed for practice on multiplication facts in
a game format. The player tries to quess the number hidden in a marked
box located in a randomly located cell of a 1X9 grid before the computer
locks the box. After the program presents the grid and marked box. it
positions its own marker in the lower left corner of the grid and begins
to search for the marked box. moving box-by-box, row-by-row, up the grid.
The player tries to guess the number in the box and type it in. If the
player types the correct number before the computer finds the box, the
number is added to the player's score; otherwise, the computer scores.
APPROXIMATE COST: \$19.95
TITLE: Making Change
SUBJECT: Mathematics (Money) GRADE LEVEL: 1-3
SYSTEM: Apple II 32K DOS 3.3
DESCRIPTION: Program teaches value of dollar, quarter, dime, nickel
and penny. Computer presents a problem involving one or more coins and
the student must identify alternative coins which total the same amount.
The student is not required to make change: Program has built-in help
if student misses a conversion.
Hi-res. graphics for coin reproduction.
APPROXIMATE COST: Public Domain
TITLE: Math Dice
TIME. FACE DICE
SUBJECT: Mathematics GRADE LEVEL: 1-3
SYSTEM: Commodore/PET (Disk)
DESCRIPTION: There are two dice displayed on the screen. The computer
"throws" the dice and the student adds the numbers on the dice. Helpful
when working on number identification and addition using numerals 1-6.
•
APPROXIMATE COST: Public Domain

-26-

TITLE: Tables 1-12	
SUBJECT: Mathematics	GRADE LEVEL: 1-3
SYSTEM: Apple II Applesoft 32K	
DESCRIPTION: This program uses graphics to p	
for math drill in the 4 basic operations. The	e student choses the opera-
tion, and either the number of the table to pr	actice or random generations
of operands in range 0-17.	
APPROXIMATE COST: \$39.95	
ATTORITETE COST	
TITLE: Times	
SUBJECT: Mathematics	GRADE LEVEL: 1-3
SYSTEM: Commodore/PET 8K (Cassette)	
DESCRIPTION: The program presents random mul	tiplication facts up through
the nines. Correct answers are reinforced.	
one more chance. A second wrong answer resul	
presented, and asks the student to type it in	
program reports the number of problems answer	ed correctly and the elapsed
time for the most recent problem.	
ADDROVINAMO COCM. CZ OF	
APPROXIMATE COST: \$7.95	
TITLE: Atari Safari	
11100.	
SUBJECT: Mathematics/Language Arts (Games)	GRADE LEVEL: 1-4
SYSTEM: Atari 800 24K (Joystick controls)	
THE THE TANK	
DESCRIPTION: Atari Safari is a collection of	25 programs. There are a
combination of games and utility programs. T	
Demolition Derby, Think, Mountain, Black Hole	
Dynamite and Tic Tac Toe.	
The utilities include Finance, Math Plo	t, Unit Conversion, and Math
drills in addition, subtraction, multiplicati	
programs all include Shape Builder, Music and	
APPROXIMATE COST: \$38.95	

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TITLE: Compu-Math Arithmetic Skills	
SUBJECT: Mathematics	GRADE LEVEL: 1-4
SYSTEM: Apple 48K (Disk)	
DESCRIPTION: This is a tutorial on 4 b	asic operations. Step-by-step
instructions are given for addition, su	btraction, multiplication and
division. The student is moved to the	next level based on his/her per-
formance. It includes provisions for i	ndividually prescribing instruc-
tions.	
APPROXIMATE COST: \$49.95	
TITLE: Hurkle	
SUBJECT: Mathematics - Intro. to Coordi	nators GRADE LEVEL: 1-4
SYSTEM: Apple II 32K DOS 3.3	macors GRADE BEVED: 1-4
DESCRIPTION: This is a game using x,y	coordinates in a 10X10 grid. A
Hurkle is hidden in one of the grids.	Color and written clues are given
to assist the student in making logical	quesses. Student is also intro-
duced to 8 points of the compass. Maxi	
Replays indefinitely	
<del></del>	
APPROXIMATE COST: Public Domain	
Multiplication	
SUBJECT: Mathematics	GRADE LEVEL: 1-4
YSTEM: TRS-80 Model I/III 16K (Casse	tte)
ESCRIPTION: The program gives on-scre	en practice in multiplying whole
numbers in the same manner as one would	
any of 5 difficulty levels, During pro	blem, a blinking cursor indicates
the position of the digit to be entered	. The student may either enter
a digit or ask for help in finishing th	e problem. An end-of-session
report gives the number of problems wor	
APPROXIMATE COST: \$74.95	

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TITLE: Apple Barrel SUBJECT: Math, Counting/Estimating GRADE LEVEL: 1-5 SYSTEM: Apple II Plus 32K 3.3 DOS (Disk) DESCRIPTION: Color graphics are user to establish a simulation in which "Farmer John" collects his apples in a barrel but needs someone to tell him "how many." User may use any math function to derive the answer. Could be used for small group drill. The size of the barrel is selected by the user. This determines the level of difficulty for each problem. APPROXIMATE COST: Public Domain TITLE: Clock SUBJECT: Mathematics GRADE LEVEL: 1-5 SYSTEM: Apple II (Applesoft) 48K 3.3 DOS (Disk) DESCRIPTION: This program provides practice with clocks in three modes: setting the hands of a clock from digital time; reading a clock and typing the digital time; setting clock hands from time given in words. Each mode can be given in any of five difficulty levels which are based on the precision with which an answer must be given; this ranges from level 1 (time correct to one hour) to level 5 (time correct to one minute). APPROXIMATE COST: \$49.95 TITLE: Math Pak I SUBJECT: Mathematics GRADE LEVEL: 1-5 SYSTEM: TRS-80 Model I 16K (Casette) DESCRIPTION: The package contains one program for each of four basic arithmetic operations on whole numbers. All operate more or less like addition which is as follows. First, questions to specify problem difficulty are answered. Then, 10 problems are displayed. The program accepts a result, digit by digit at the bottom of the screen. If a digit is correct, it is filled in under the problem. If a digit is incorrect the problem so states and gives another chance--up to five trials per digit. If student's score is 90 or better, s/he is rewarded with a game of "Bomber." \$14.95 APPROXIMATE . COST:

TITLE:	Pizza
SUBJECT:	MathIntro. to Coordinates GRADE LEVEL: 1-5
SYSTEM:	Apple II Plus 32K 3.3 DOS (Disk)
DESCRIPTION	I: A simple 4X4 grid is used to locate 16 homes in Kahii.
The stud	lents' pizza parlor must deliver to these homes. The
	sks "Where?" and the user must give coordinates.
Sui	table for small groups. Essentially, student is introduced to
the conc	ept of x,y coordinates in an amusing format.
ADDDOVIMATE	COST: Public Domain
APPROXIMATI	COS1:
	·
TITLE:	Supermath
	Math, Basic Functions GRAPE LEVEL: 1-5
SUBJECT: SYSTEM:	Apple II Plus 32K 3.3DOS (Disk)
DWG GDT DWT O	N: This is a low-level basic math program using color.
Teacher	or student may select function and level of difficulty
	If level is not selected then program will locate
student	level by presenting progressively harder problems.
Difficul	ty then progresses a level at a time. If user errors
	mes on one problem, the program backs off one level,
then pro	ceeds with random examples.
APPROXIMAT	COST: Public Domain
TITLE:	Addition and Subtraction
SUBJECT:	Mathematics GRADE LEVEL: 1-6
SYSTEM:	Commodore/PET 8K (Cassette)
DESCRIPTION	N: The program practices adding or subtracting one-to-seven
	umbers. The addition and subtraction programs are two
	products. The products are similar except for the type
of arith	metic operations involved and the number of difficulty levels
provided	d.  Acher can specify a variety of parameters such as with or without
	carry, regrouping, etc. Problems in the program are displayed
in verti	cal orientation. Thus, students enter answers from right
	Graphic feedback is given.
APPROXIMAT	E COST: \$20.00

TITLE:	Working With Basic Multiplication Facts
SUBJECT:	Mathematics GRADE LEVEL: 1-6
SYSTEM:	Commodore/PET 8K (Cassette)
DESCRIPTIO	N: Program is a timed drill on multiplication facts, 0-9.
	sson consists of 15 problems generated randomly except
	n answered correctly is not repeated. The learner may
	to drill on multiplication generally or on a certain
	At the end of each lesson, student performance is reported
in term	s of: number of problems, errors, and answers given by the r; response time; total lesson time; and identity of
	some problems.
trouble	some problems.
APPROXIMAT	E COST: \$7.95
TITLE:	EDU-DISKS
SUBJECT:	Math GRADE LEVEL: 1-7
SYSTEM:	Apple II Plus, Atari, TRS-80
DESCRIPTIO	N: Designed to enhance a standard mathematics program
for grad	des one to seven. The disks also serve for remedial testing
	ddle school or secondary level. Though independent of
	they are correlated into the ten leading mathematics
texts.	The program format includes pretest, practice and post-
	or each segment.
	22 Cuest Cognition
	<del></del>
	F COST. Two Diskettes, 24 page Teacher's Guide and
APPROXIMAT	E COST: Two Diskettes, 24 page Teacher's Guide and tion Disk\$876.00
COTTETA	LION DISKQ070.00
	California School for Deaf, Math Drill
TITLE:	
SUBJECT:	Mathematics GRADE LEVEL: 1-8
SYSTEM:	Apple II Plus, 32K 3.3 DOS (Disk)
DESCRIPTIO	N: An outstanding math drill program utilizing color
text and	d very large letters and numerals. There are four levels
	addition, subtraction, multiplication and division.
	selects functions, level and time to solve each problem.
	blems in horizontal format.
APPROXIMAT	E COST: Public Domain

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ritle:	Math A-Drill
SUBJECT:	Math, DrillAdvanced GRADE LEVEL: 1-8
YSTEM:	Apple II Plus 32K 3.3 DOS (Disk)
ESCRIPTION:	An extension of Math Drill. Provides additional drill
opportunit:	ies. At the culmination of each drill session the
user gets	results expressed in %. If student selects too hard
a drill sec	quence (misses three problems in a row), the program
returns to	start.
	negative numbers. All problems presented as algebraic
equations.	
APPROXIMATE C	OST: Public Domain
ritle:	Mathematics
SACMEN'	PRODUCTION CONTRACTOR
SISTEM:	Apple II Plus 48K 3.3DOS (Disk
DESCRIPTION .	The revised Math Sequences package offers instruction as
DESCRIPTION	ructured drill and practice. The following sequences are
well as st	Numbers Readiness, Addition, Subtraction, Multiplication,
Included:	Laws of Arithmetic, Integers, Fractions, Decimals, Percents,
Division,	and Measurement Formulas. Problem levels are small,
Equations,	steps which increase in difficulty. Problem levels are
sequential	defined so studnets may be easily placed at a level
precisely	lenges their abilities. As students demonstrate
which chai	file the computer rough them up or down a level
mastery or	failure, the computer moves them up or down a level.
AEDDOVINAME C	OST: 12 Diskettes \$450
APPROXIMATE C	UST: 12 DISRECCES \$450
ritle:	Mathematics Drill and Practice
SUBJECT:	Math GRADE LEVEL: 1-8
SYSTEM:	Apple II 48K (Disk)
DESCRIPTION:	The package contains 14 diskettes covering mathematics
concepts t	aught in grades 1-8. Type of instruction varies from
drill and	practice to introduction and development of math ideas.
Package co	ntents include addition, subtraction, multiplication,
division.	common fractions, measurement, geometry, elementary
algebra an	d decimal fractions. Designed to augment math
instruction	
A D D D O V T 1 1 2 1	2000
APPROXIMATE (	COST: Price Unknown

TITLE:	Drill
SUBJECT:	Math GRADE LEVEL: 2-4
SYSTEM:	Commodore/PET (Disk)
	N: Fundamental problems in drill and practice are
The com	ple in addition, subtraction, multiplication and division.  Apputer keeps score for the user. Two can play against each
other c	or against time. Having a scratch pad and pencil handy
is advi	sed when working the program.
APPROXIMAT	TE COST: Public Domain
ALTIONII.	Public pomain
-	
TITLE:	Match the Number
11116:	
SUBJECT:	Math GRADE LEVEL: 2-4
SYSTEM:	Commodore/PET (Disk)
DESCRIPTION	N: The screen displays three or four options which show
	r of itemsup to 9and the student is to pick the
face: i	q choice. Correct responses are rewarded with a happy ncorrect responses display unhappy faces.
	modified Toppondes display dimappy laces.
<del></del>	<del></del>
<del></del>	
APPROXIMAT	E COST: Public Domain
<del></del>	
TITLE:	Math Drill
SUBJECT:_	Math GRADE LEVEL: 2-5
System:	TRS-80 Model II (Disk)
	N: Addition, subtraction, multiplication and division luded in this program. The computer generates the problems
and the	user computes an answer on a separate note pad. The
student	matches answers with the computer.
APPROXIMAT	E COST: Public Domain

rITLE: Addition With Carry
SUBJECT: Math GRADE LEVEL: 2-8
SYSTEM: Atari 400/800 8K (Cassette) (Joystick Controlled)
DESCRIPTION: Addition With Carry is an arithmetic drill program. The
program is joystick controlled. The software is designed for
younger students already familiar with the "carry" concept. Problems
range from two single-digit numbers to seven five-digit numbers.
The computer prompts the student with a "?". If the answer is
correct, the computer places a "1" in the next row. If not, the
incorrect answer disappears, the "?" returns, and the student must
try again. There are five levels of difficulty. The computer
keeps track of the number of incorrect answers and a percent score.
APPROXIMATE COST: \$14 95
TITLE: Computer Chess
SUBJECT: Mathematics GRADE LEVEL: 2-10
5050201.
SYSTEM: Atari 400/800 (Cartridge) (Joystick Controlled)
Dick complete
DESCRIPTION: Chess is played against the computer. Eight computer
skill levels are available. In the easiest level, the computer only
"thinks" about its next move for about 15 seconds. In the most
difficult level, the computer can take up to 10 hours for a
single move. Computer chess follows the basic moves of standard
chess, including "castleing" and "en passant". It is also possible to
promote the pawn by advancing it to the opposite side of the
board.
APPROXIMATE COST: \$39.95
TITLE: Apple Array
SUBJECT: Mathematics Multiplication GRADE LEVEL: 3-6
SYSTEM: Apple II Plus 32K 3.3 DOS (Disk)
DESCRIPTION: This is an extension of "Apple Barrel" except
that apples fall into the barrel in uniform rows so that
multiplication becomes the logical function.
The program can be used by the student with little or no
teacher quidance.
THE PARTY OF THE P
APPROXIMATE COST: Public Domain
AFFROATINE COST: FWITC BOINGIN

TITLE: Cash Register	
SUBJECT: Math	GRADE LEVEL: 3-6
SYSTEM: Commodore/PET (Disk)	
DESCRIPTION: The student protonds to run	
DESCRIPTION: The student pretends to run a ca grocery store. A purchase is made and char	ish register at a local
can be given in any denomination, but total	nge is given. Change
Problems are presented in story fashion.	must be correct.
Tropicing are presented in story rashion.	
	<del></del>
APPROXIMATE COST: Public Domain	
Public Domain	
	<del></del>
TITLE: Story Problems in Addition and Subtrac	tion
SUBJECT: Mathematics	CDADD I FERDI
SYSTEM: Commodore/PET 8K (Cassette)	GRADE LEVEL: 3-6
Commodore/PET 8X (Cassette)	
DESCRIPTION: Simple word problems are presente	A /
number addition and subtraction. About 14 s	d involving whole
presented. The problems involve 3 or 4 sit	tory problems are
may answer or ask for the right answer. Co	uations. The student
rewarded with a happy face; an incorrect an	Show is furnished with
a monster. A performance report, including	elapsed time is
given at the session end.	crapsed time, is
	· · · · · · · · · · · · · · · · · · ·
APPROXIMATE COST: \$7.95	
TITLE: Take It	
SUBJECT: Mathematics	GRADE LEVEL: 3-7
SYSTEM: Apple II (Applesoft) 32K (Disk)	
DESCRIPTION: This is a drill on signed number a	
format. The game is timed, testing student	's usage of the four basic
arithmetic operations. The player has a che	oice of one operation or
a mixture of all four. The computer present	ts a problem. The
player computes the answer and then may take	e it or leave it for
the computer, but must do so before his or	her time is up. The student
who is too late has the decision made by the	
over-all score is reported after each proble	em. Problem difficulty
is adjusted based on student performance.	
APPROXIMATE COST: \$19.95	
APROXIMATE COST: \$19.95	···

TITLE:	Find the Factors
-	Math GRADE LEVEL: 3-8
SUBJECT:_	
SYSTEM: _	Commodore/PET 8K (Cassette)
DESCRIPTION	ON: The program allows practice in finding two numbers
given	their sum and product of the two numbers. If correct
number	s are entered in the first four trials, the program reports
correc	t and presents a new problem. If neither number is
entere	d, the program gives one of the numbers; the other is
given	if not found after four more trials. If two numbers
are en	tered which give either the sum or the product but
not bo	th, the student is so informed. Two difficulty levels are
provid	led: operands 1-10 and 1-100, respectively.
provid	- cost
APPROXIMA	TE COST: \$7.95
	No charming
TITLE:	Mastermind
SIB TECT.	Math Logic GRADE LEVEL: 3-8
SUBJECT:_ SYSTEM:	
SISTEM: _	1,552.0
	2.132
DESCRIPTI	ON: student must guess both the color and the location
of fou	or colors in a line. Program gives clues to assist in making
logica	al choices. There are six colors to chose from. Student
_may_se	elect one to four colors at a time. Multiple variables
make t	this a fairly difficult exercise.
APPROXIMA	TE COST: Public Domain
THE I WHELE	
TITLE:	Othello
CUR TECT.	MathCoordinates, Logic GRADE LEVEL: 3-8
SUBJECT:	Apple II Plus, 32K 3.3 DOS (Disk)
SYSTEM: _	Apple 11 12407 DIA OVO DES (CESTA)
DESCRIPTI	ON: This is a strategy game played on an 888 grid. The
user	challenges the computer by trying to trap the opposite
color	on the grid. This is a very long game. The computer reacts
very s	slowly. The game cannot be completed in just a few minutes.
	Public Domain
APPROXIMA	ATE COST: Public Domain

TITLE: Postperson's Ro	ute	
SIB.TECT: Math		CD100 1000 2-16
SUBJECT: Math SYSTEM: Commodore/P.	ET (Disk)	GRADE LEVEL: 3-10
HSTEM: COMMODOTO/T	DI (DISK)	
ESCRIPTION: The compu	ter produces a rout	e on the screen and by
manipulating the cen		
difficulty range from	m 1-10. More diffi	cult routes require
considerable pre-pla	nning.	
APPROXIMATE COST: Publ	ic Domain	
TITLE: Yahtzee		
		· · · · · · · · · · · · · · · · · · ·
SUBJECT: Math (game)		GRADE LEVEL: 3-10
YSTEM: Commodore/PET	(Disk)	
ESCRIPTION: Five dice	are presented on th	e screen and the user
competes against the	computer to record	competitive scores. There
		ecisions that must be regular game when playing
computer version for		
Compacer version for	CHC TITSC TOW CIME	· · · · · · · · · · · · · · · · · · ·
	<del></del>	
PPROXIMATE COST: Pub.	lic Domain	
ITLE: Multiplication	Drill	
11LE:		
UBJECT: Math		GRADE LEVEL: 3-1
YSTEM: Commodore/PET	(Disk)	GRADE HEVEL:
		onsiderable drill practice
		digit numbers. The user
		terms of accurate answers
and time taken for a	response. Cues ar	e given when
answer is incorrect.		
		-
Puhl-	ic Domain	
PPROXIMATE . COST: PUDIT		

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SUBJECT:	Math GRADE LEVEL: 4-7
	TRS-80 16K (Cassette)
DESCRIPTION:	The program is designed for students to practice
factoring	g and identifying primes in game format. Ordinal
numbers a	are presented, starting with 1 and ending with number
chosen by	y student. Student and program take turns. On the
student's	s turn, s/he is asked to pick a number, trying to get
the large	est one whose factors remain on a predetermined list.
The numb	er selected is added to the student's score. Then,
	an in the program gets the factors of the student's
	that remain.
APPROXIMATE	COST: \$7.95
TITLE:	Metric Roadrunner
SUBJECT:	Math GRADE LEVEL: 4-7
	TRS-80 Model I 16K (Cassette)
DESCRIPTION	: This program is in a game format and is used to
practice	estimating distances in centimeters. Coyote and Roadrunner
shapes a	re placed on the screen in random locations. The student
tries to	make the Coyote "catch" the Roadrunner by estimating and
typing i	n the distance between the two shapes so many
centimet	ers up or down and/or right and left. If the student
misses t	he distance, the program relocates both shapes and the
student	tries again. If student answers correctly, the program
gives a	vibrating message and chance to try again.
APPROXIMATE	COST: \$7.95
TITLE:	Sets
SUBJECT:	Mathematics GRADE LEVEL: 4-7
	Commodore/PET 8K (Cassette)
DESCRIPTION	: Program allows practice in finding the union and
intersec	tion of two sets. The program presents two sets
consisti	ng of letters and asks for their union and intersection.
If stude	ents answers correctly, the program so indicates and
goes on	to the next question. If the student is incorrect, the
right an	iswer is given, and the next problem is presented. An
optional	review lesson is available to introduce or review the
set conc	cept. The programs reports student performance after 10
problems	
problems	

TITLE:	Sets and Numbers	
Cim Tron		
SUBJECT: SYSTEM:	Math	GRADE LEVEL: 4-7
J. J. L.	TRS-80 Model I (Level II BASIC)	16K (Cassette)
DESCRIPTIO	ON: Students aggrire practice with a	ata and musham and a section as
The pre	ON: <u>Students acquire practice with second pre-test fol</u>	ets and number sentences.
	s and number sentences. The program	
accept	s a number referring to the answer.	If answer is correct program
	nues. If incorrect, the program state	
it allo	lows unlimited trials. There is no po	erformance report except on
	re-test.	
APPROXIMAT	TE COST: \$24.95	
l		
TITLE:	Compu-math Fractions	
SUBJECT:	Math	GRADE LEVEL: 4-8
SYSTEM:	Apple (Applesoft) 32K (Disk)	GRADE BEVEE:
DESCRIPTIO		test and tutorials
	ctions, definitions, common and lowe:	st denominators,
	and subtracting, multiplication and	
test is	s multiple choice with items from al.	l parts of the unit;
	s with a report and recommendation for	or placement of student
within	a unit.	
ADDOUTUA	TD 000T	
APPROXIMAT	TE COST: \$39.95	
-		
	;	
TITLE: N	MECCElementary Vol. 3, Version 4.5	
SUBJECT: N	Math, Social Studies	GRADE LEVEL: 4-8
SYSTEM: 7	Apple II Plus 48K 3.2DOS (Disk)	
	ON: Civil is a simulation of fourteer	
	ts decide how to allocate funds and c	
	attle strategies to use. States and	States 2 are drill
	ms for learning states and capitals.	
Fo	our Sell programs combine math concep	ots and business
	tions. Programs demonstrate the infl	
findi	ing the optimum price for a product a	and marketing techniques.
ADDDOVINA	TE COSTI.	
APPROXIMATI	E COST: \$29.95	

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APPROXIMATE COST: \$49.95

TITLE:	Place Value
SUBJECT:	Math GRADE LEVEL: 4-8
SYSTEM:	Commodore/PET 8K (Cassette)
DESCRIPTION	: Program is a tutorial on place value in decimal numbers.
	gram operates as follows: (1) introduces the decimal
	and the values of digits in the one's through 1000's
places;	gives practice in determining the quantity of one's,
between	etc., making up a number; introduces the relationship regular and expanded numbers, e.g., 25 = (2X10) + (5X1),
and giv	res practice with this concept; and gives practice (30
	determining the value of numerals in each place, eg.,
	the value of 5 in 8537? A performance report is given at end.
	COST: \$24.95
AL PROXIMIL	COS1: \$24.55
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TITLE:	Stalker
	Math. Pagie Pagie
SUBJECT:	Math, Basic Functions GRADE LEVEL: 4-8  Apple II Plus 32K 3.3 DOS (Disk)
SYSTEM:	Apple II Plus 32k 3.3 DOS (DISK)
DECCRIPATON	.This is a competitive math game for two players. Game
	are required. Students select function, degree of
	Ity (rank of officers) and size parameters for the numbers
	problem. The number of points to win (1-100) is also
	d. Thus the teacher can control the length of the game to
	gree. Four problems are shown simultaneously and these
can be	multiple function problems.
APPROXIMATE	COST: Public Domain
TITLE:	X Zone
	Math Coordinates, Logic GRADE LEVEL: 4-8
SYSTEM:	Apple II Plus 32K 3.3 DOS (Disk)
DECCRIDATON	Student tries to find the intersections of two hidden
	n a grid. The computer gives color clues after each guess
	the student can made a logical next guess. Requires
color m	
APPROXIMATE	COST: Public Domain

TITLE: Comfrac	
	GRADE LEVEL: 4-9
SUBJECT: Mathematics SYSTEM: TRS-80 (Disk)	GRADE DEVELO. 4-9
SISIM. IRS-60 (DISK)	
DESCRIPTION: This program provides drill and pra	actice for converting
fractions. Fractions are presented on both sides	
3 of the 4 four parts of the two fractions given.	The student provides
the correct response. The user has two chances t	to generate an accurate
value.	
APPROXIMATE COST: Public Domain	
TITLE: Link Four	
SIR TECT.	GRADE LEVEL: 4-9
SUBJECT: Mathematics (Logic) SYSTEM: 400/800 8K (Cassette) (paddle controllers	
Atari	
DESCRIPTION: Link Four is a two-player logic gam	me. The screen displays
a 6X7 grid of empty boxes. Each player, in turn,	
colored square so that he will link 4 of his colo	red squares together.
either horizontally, vertically, or diagonally.	
horizontally across the top of the column. Once	
selected the piece drops in the lowest open box.	
order to position a colored square in the third b	
2 squares below it must already be filled. Strat many steps in advance in order to out-maneuver th	
many steps in advance in order to out maneuver to	ic opponent.
APPROXIMATE COST: \$6.95	
TITLE: Skill Builder I (Bingo Duel) (Number Hunt	-1
TITLE: Skill Builder I (Bingo Duel) (Number Runt	-)
SUBJECT: Mathematics	GRADE LEVEL: 4-9
SYSTEM: Atari 400/800 8K (Cassette) (Joystick (	
DESCRIPTION: Skill Builder I is a 2-program cass	sette designed to test
and improve arithmetic skills. In Bingo Duel, t	
program alone, with another player, or with the c	computer. The computer
puts 25 numbers on the screen to be used as answer	
at the bottom of the screen. The object is to fir	id the answers to the
math problems faster than the opponent.  In Number Hunt 3X3 number grids display a continuous	cursor for each opponent
Each time a player answers correctly both players	
The player who scores 10 correct answers wins the	
APPROXIMATE COST: \$19.95	

ritle:	Spider	
SUBJECT:	Mathematics	GRADE LEVEL: 4-10
	Commodore/PET (Disk)	4-10
ESCRIPTI	ON: Computer is set up	to move the cursor in a number of
differen	nt directions leaving a t	rail, much the way a spider leaves an
integrat		
APPROXIMA	TE COST: Public Domain	
TITLE:	Arithmetic Racing	
SUBJECT:_	Mathematics	GRADE LEVEL: 4-11
YSTEM:	Apple I or Apple II Pl	us Applesoft 32K DOS 3.2 or 3.3
ESCRIPTION	ON: This program is a	game of timed arithmetic practice for
students	. Players select addition	on, subtraction, multiplication or
division	option and specify large	est numbers they want the computer to
use. Pl	ayers also select a need	level of from 1-5. A point value is
assigned	to each problem, and a	25 point bonus is added to the score ed correctly. Program assumes students
	sic arithmetic facts.	ed correctly. Program assumes students
PPROXIMA	TE COST: Public Domain	
TITLE:	Decimal Division	
UBJECT:	Mathematics	GRADE LEVEL: 4-12
YSTEM:		
ESCRIPTION		itten in a verbal problem format. Both
decimal	numbers are entered by the	ne student. The useron a note pad
	produced by the micro-co	compares that answer with the correct computer.
PPROXIMA	TE COST: Public Domain	

TITLE: Elementary Volume 4, MECC	
SUBJECT: Mathematics, Science, Logic SYSTEM: Apple II 48K 3.2 DOS	GRADE LEVEL: 4-12
DESCRIPTION: Diskette contains 6 programs.  practice program for estimating answers to prand percents. Math Game is a drill and pract operations. Odell Lake and Odell Woods are first in which the user must take the role of URSA teach concepts of distance in space and Good documentation included.  APPROXIMATE COST: \$29.95	oblems in 4 basic functions ice program in the 4 basic ood web simulations, the a fish. Solar Division and
TITLE: Fred Fraction  SUBJECT: Mathematics (Fractions)  SYSTEM: Apple II 32K DOS 3.3	GRADE LEVEL: 4-12
DESCRIPTION: This program provides drill in are several levels of difficulty selected by immediate feedback, encouragement and prods to common denominator.  Problems are selected randomly. Color graphics are outstanding.	user. The program provides
APPROXIMATE COST: Public Domain	
TITLE: Add Fast	
SUBJECT: Mathematics SYSTEM: Commodore/PET (Disk)	GRADE LEVEL: 5-12
DESCRIPTION: This program gives practice in established and the user responds to the problems Learner rates himself from 1-10 and problems	olems presented at random.
APPROXIMATE COST: Public Domain	

TITLE: MECC Math. Volume I
•
SUBJECT: Mathematics GRADE LEVEL: 5-12
SYSTEM: Apple II 32K 3.2 DOS or 3.3 DOS
DECARTEMANY - 1
DESCRIPTION: Diskette contains 8 programs. Algebra presents simple
algebraic equations with good drill and practice. Low level algebra
only. Slope focuses on graphing a linear equation. Bagels, Snark
and Radar are suitable for younger students who enjoy math and logic.
Polar and Polygraph teach functions involving polar coordinates. ICBM teaches the coordinate system.
Good documentation is provided.
Good documentation is provided.
APPROXIMATE COST: \$29.95
and the cool.
TITLE: Poker
SUBJECT: Mathematics GRADE LEVEL: 5-12
SYSTEM: Commodore/PET (Cassette) 16K minimum
DESCRIPTION: Designed to pit the skills of the player against the
Computer House. Graphic displays depict: player's bet, draw cards, and
bet again. The House is programmed to make moves in accordance with the
hand it has been dealt and the nature of the betting which has taken
place. The computer evaluates each hand, rearranges the cards approp-
riately, and displays a summary of each game. Total standings of the
House and player are recorded and displayed after each game.
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APPROXIMATE COST: \$15
TITLE: Archimedes' Apprentice
Atchinedes Apprentice
SUBJECT: Mathematics GRADE LEVEL: 6-8
SYSTEM: TRS-80 Model I/III 16K (Cassette)
DESCRIPTION: The goal of the Archimedes' Apprentice is to teach the user
the formulas for determining the volume of various geometric figures.
The two programs cover parallelepipeds, prisms, pyramids, cylinders,
cones and spheres.
APPROXIMATE COST: \$9.95

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FITLE: Algebra Billiards	
SUBJECT: Mathematics	GRADE LEVEL: 7-9
SYSTEM: TRS-80 Model I 16K (Cassette)	
SISTEM: TRS-80 MODEL I TOK (Cassette)	
DESCRIPTION: The program gives practice in we	orking algebra substitution
problems at the same time a game of billards	
"racks up" the characters to be used in the u	pcoming problem, and the
student "breaks" by pressing the "C" key (cue)	ball). The characters
bounce around and settle into the expression	to be evaluated. The values
of 2 variables are given. The student is ask	ed to identify the unknown
variable and then to direct a series of steps	to solve the problem, using
unknown values. Student starts with 15 point	
correct response.	
APPROXIMATE COST: \$16.95	
AITIOAITAIL COOT. TOO	
TITLE: Geometry and Measurement Drill & Prac	tice
Geometry and Measurement Dill a line	
SUBJECT: Mathematics	GRADE LEVEL: 7-12
SYSTEM: Apple II Applesoft 32K DOS (Disk)	
Apple II Applesoft 32% bob (blok)	
DESCRIPTION: This program has practice probl	ems on lengths, areas,
perimeters, angles, and volumes of various pl	ane and solid figures. It
is intended for students at the basic geometr	
It uses high-resolution graphics to emph	asize key points and provides
short explanations for students having diffic	
Short explanations for Students having corre	
APPROXIMATE COST: \$50	
AFFROXIMIL COST	
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TITLE: Gross Pay	
1111111.	
SUBJECT: Mathematics	GRADE LEVEL: 7-12
SYSTEM: Commodore/PET (Disk)	
DIGITAL. COMMODOLO/121 (2131)	
DESCRIPTION: This program provides a number	of word problems on "pay"
for which the user must compute hourly, month	ly, regular and over-time
payments. Responses are given when the user	supplies incorrect responses
Entrances responded are drack and and	
approurus mp. cond. Public Persin	
APPROXIMATE COST: Public Domain	

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TITLE: Junior High School Mathematics Programs
SUBJECT: Mathematics GRADE LEVEL: 7-12
SYSTEM: Commodore/PET (Disk)
DESCRIPTION: Individually designed programs to help students work on
developing facilities in dealing with simple multiplication, division
(2-7 digit integers may be involved), addition, subtraction, problem
solution involving proportional relationships of the type: X/a equals b/c.
percent and fraction problems.
Other programs include: Mode-Median-Mean, Bar Graph Analysis,
decimals and verbal problems.
desimals and verbal problems.
ADDDOVINATE COCT
APPROXIMATE COST: \$20 each
TITLE: Add
SUBJECT: Mathematics GRADE LEVEL: 8-10
SYSTEM: Commodore/PET 8K (Cassette)
SISILM. COMMODITE/ILL OR (CASSECCE)
DECCRIPATION - Main
DESCRIPTION: This program enables the student to practice adding and
subtracting algebraic binomials. Unlimited problems are presented in-
volving adding and subtracting binomials in horizontal format. The final
answer is entered by the student. If the input is correct, the program
will move to the next problem. Incorrect answers results in the computer
giving the correct answer and moving on to the next problem.
APPROXIMATE COST: \$19.95
TITLE: Tic Tac Pet
SUBJECT: Mathematics GRADE LEVEL: 8-10
SYSTEM: Commodore/PET
COndicatory FE1
DESCRIPTION: The student protices solving linear southing is
DESCRIPTION: The student practices solving linear equations in a game
format. The program presents a Tic Tac Toe board with a linear equation
as well. Two players take turns selecting and trying to solve 3 equations
in a row. Correctly solved equations allows the player's marker to be
placed in the cell. Wrong equations result in the other player's turn.
Yet, if both players are wrong, problem selection passes to the other
player. There are 9 difficulty levels with which the players may choose.
APPROXIMATE COST: \$50 for 15 program package

TITLE: Binomial Multiplication
SUBJECT: Mathematics GRADE LEVEL: 8-12
SYSTEM: Apple II or Apple V Plus Applesoft 32K DOS 3.2 or 3.3
DESCRIPTION: Program assumes students are familiar with multiplying
monomials, know the distribution property, and understand the concept
of area as it relates to the rectangle. Should also have had practice
in binomial multiplication. The program demonstrates the product of
2 binomials is a valid process.
Z DIMONIALS 13 a Valla process.
APPROXIMATE COST: Unknown
TITLE: Function Grapher
SUBJECT: Mathematics GRADE LEVEL: 8-12
SYSTEM: Apple II or Apple II Plus Applesoft 48K (Disk) DOS 3.2 or 3.3
SISTEM: Apple II Of Apple II Flus Applesore 40K (bisk) bob 312 of 315
DESCRIPTION: The menu display offers students the choice of circular
(trig) functions, absolute value functions, greatest integer functions,
polynomial functions, or student-supplied functions. Regardless of the
category once a specific function has been selected students supply each
coefficient. To enable an investigation of the role of the coefficients
students may also elect to have the computer graph a second function on
the same set of axes.
APPROXIMATE COST: Unknown
TITLE. Reverse
TITLE: Reverse
SUBJECT: Mathematics GRADE LEVEL: 8-12
SYSTEM: Commodore/PET (Disk)
DESCRIPTION: The computer presents a scrambled number-line with digits
0-9. The user must determine how to reverse the arrangement of digits
to produce a number-line from 0-9. The different combinations of numbers
definitely keep the user on his/her toes.
APPROXIMATE COST: Public Domain

mīmir.	Arithmetic of Function
TITLE:	Aldiette of taketon
CUE TROP	Mathematics GRADE LEVEL: 9-12
	Apple II or Apple II Plus DOS 3.2 or 3.3 Applesoft 32K
SYSTEM:	(Disk)
DESCRIPTION	: The program assumes that students have good understanding
and graphi	c knowledge about various mathematics functions including
algebra, p	olynomial, trigonometric and logarithmic functions. Program
demonstrat	es the combining of 2 functions using arithmetic operations
and the re	sulting effect on the displayed graph.
ADDDOVIMATE	COST: Unknown
AFFROATIMIE	COST: UNKNOWN
_	
TITLE:	Hicall
SUBJECT:	Mathematics GRADE LEVEL: 9-10
SYSTEM:	Commodore/PET 8K (Cassette)
DESCRIPTION	: The goals of this program are to help students discover
relational	patterns between algebraic coefficients and the values
of the exp	ressions in which they appear, and also to give practice in
integer ar	ithmetic and in evaluating expressions.
APPROXIMATE	COST: \$5
TITLE:	Linear Equations
	<u> </u>
SUBJECT:	Mathematics GRADE LEVEL: 9-12
	Commodore/PET (Disk)
3131Em:	Comboole/FEI (DISK)
DECCETEMENT	
	This program graphs basic linear functions in the format
	C. A, B, and C are whole numbers. Fractions are not
	There is a 40X20 graphing area; users must limit size of numbers
in the equ	ation for charting on the graph.
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<del>-:</del>	
ADDDOUTES	coom. Public Domain
APPROXIMATE	COST: Public Domain

TITLE: Senior High Mathematics Program	T Math Diskette
SUBJECT: Mathematics	GRADE LEVEL: 9-12
SYSTEM: Apple II Plus DOS 3.3	
Apple II Plus 105 3.3	
DESCRIPTION: A package of high school	mathematics covering the following
is available: Quadratic Equations, Trigo	
ions, (2X2) Problems INumbers, Verbal	Problems IICoins Verbal Prob-
lems IIIAges, Verbal Problems IVInt	
Verbal Problems VIGeometry and Verbal	
Verbal Floblems VIGeometry and Verbal	FIODIENS VII - Adles.
<del></del>	
APPROXIMATE COST: \$180 package	
7200 Passage	
TITLE: Senior High Mathematics Program	II Math Diskette
SUBJECT: Mathematics	GRADE LEVEL: 9-12
SYSTEM: Apple II Plus DOS 3.3	
D1018	
DESCRIPTION: This package is similar to	I Math Diskette but includes the
following areas: Verbal Problems VIII	Digits, Verbal Problems IXWork,
Arithmetic Progressions I, Arithmetic P	rogressions II, Geometric Prog-
ressions I, Geometric Progressions II,	Types of Variation, Linear
Equations, Formula Evaluation, Coordina	
rithms, and Verbal Problems XGeneral.	
APPROXIMATE COST: \$180 package	**************************************
AFFROXIMIE COST.	
TITLE: Senior High School Methematics	ProgramCoordinate Geometry
SUBJECT: Mathematics	GRADE LEVEL: 9-12
SYSTEM: Commodore/PET	
DESCRIPTION: Enables the student to de	velop facility in dealing with the
elementary concepts of coordinate geome	
points and the slope and intercept of a	
are among the concepts being dealt with	
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APPROXIMATE COST: \$20	1
APPROXIMATE COST: \$20	/
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DESCRIPTION: Enables the student to develop facility in dealing with the properties of a right triangle and the 6 basic trig functions: sine, cosine, tangent, cosecant, secant, and cotangent.  APPROXIMATE COST: \$20  TITLE: Senior High School Mathematics ProgramVerbal Problems I  SUBJECT: Mathematics GRADE LEVEL: 9-12  SYSTEM: Commodore/PET (Disk)  DESCRIPTION: Enables the student to develop facility in dealing with the	TITLE: Senior High School Mathematics ProgramGeometric Progressions I
SYSTEM: Commodore/PET (Disk)  DESCRIPTION: Enables the student to develop facility in dealing with the various geometric progressions. The common ratio, nth term, and geometric mean are 3 of the components being dealt with.  APPROXIMATE COST: \$20  TITLE: Senior High School Mathematics Program—Trigonometry II  SUBJECT: Mathematics GRADE LEVEL: 9-12  SYSTEM: Commodore/PET (Disk)  DESCRIPTION: Enables the student to develop facility in dealing with the properties of a right triangle and the 6 hasic trig functions; sine, cosine, tangent, cosecant, secant, and cotangent.  APPROXIMATE COST: \$20  TITLE: Senior High School Mathematics Program—Verbal Problems I  SUBJECT: Mathematics GRADE LEVEL: 9-12  SUBJECT: Mathematics GRA	SUBJECT: Mathematics CDADE I FUEL . 0.10
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TITLE: Senior High School Mathematics Program—Trigonometry II  SUBJECT: Mathematics GRADE LEVEL: 9-12  SYSTEM: Commodore/PFT (Disk)  DESCRIPTION: Enables the student to develop facility in dealing with the properties of a right triangle and the 6 basic trig functions; sine, cosine, tangent, cosecant, secant, and cotangent.  APPROXIMATE COST: \$20  TITLE: Senior High School Mathematics Program—Verbal Problems I  SUBJECT: Mathematics GRADE LEVEL: 9-12  SYSTEM: Commodore/PET (Disk)  DESCRIPTION: Enables the student to develop facility in dealing with the solution to verbal problems involving relationships. The student must construct, from a statement of the problem, an algebraic equation which then proceeds to solve for the unknown.	various geometric progressions. The common ratio, nth term, and geometric
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DESCRIPTION: Enables the student to develop facility in dealing with the properties of a right triangle and the 6 basic trig functions: sine.  COSINE, tangent, COSECANT, SECANT, and COTANGENT.  APPROXIMATE COST: \$20  FITTLE: Senior High School Mathematics ProgramVerbal Problems I  SUBJECT: Mathematics GRADE LEVEL: 9-12  SYSTEM: Commodore/PET (Disk)  DESCRIPTION: Enables the student to develop facility in dealing with the solution to verbal problems involving relationships. The student must construct, from a statement of the problem, an algebraic equation which then proceeds to solve for the unknown.	SUBJECT: Mathematics GRADE LEVEL: 9-12
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	APPROXIMATE COST: \$20

TITLE: Fuelid Coometry Titon
TITLE: Euclid Geometry Tutor
SUBJECT: Mathematics GRADE LEVEL: 10-12
SYSTEM: TRS-80 Model I/III 16K (Cassette)
DESCRIPTION: Program is designed to reinforce basic geometry concepts
introduced by the teacher. Students develop proofs using 9 basic pos-
tulates of Euclidean Geometry. The program has 1 of 3 difficulty levels.
In the second, the student enters statements, and the computer gives the
reasons justifying the statement. In the third mode, the student provides
both statements and reasons.
APPROXIMATE COST: \$39.95
TITLE: Proofs and Properties
SUBJECT: Mathematics (geometry) GRADE LEVEL: 10-12
SUBJECT: Mathematics (qeometry) GRADE LEVEL: 10-12 SYSTEM: Apple II Applesoft 3.2 or 3.3 DOS 32K (Disk)
Apple 11 AppleSoil 3.2 of 3.3 bos 32k (bisk)
DESCRIPTION: This program practices concepts used in doing geometric
proofs. Proofs and properties presents a series of questions and prob-
lems on first semester geometry with emphasis on proofs and proving and
the critical relational properties. It is designed to be run without
external documentation. The disk is protected against copying and modifi-
cation.
APPROXIMATE COST: \$29.95
TITLE: Introductory Calculus
IIILE: Introductory careurus
SUBJECT: Mathematics GRADE LEVEL: 11-12
SYSTEM: Apple II Plus or Commodore (Disk)
DESCRIPTION: The following programs are designed to support an intro-
ductory calculus course: Differentiation Algebraic Functions, Maxima/
Minima Problems Part I, Maxima/Minima Problems Part II, Relative Problems
Part I, Relative Rates Problems Part II, Integration of Algebraic Func-
tions, Differentiation of Trigonometric Functions, Integration of Trigo-
nometric Functions, Integration: Areas of Plane Figures, Integration:
Volumes of Solids, Integration: Arc Lengths, and Integration: Surface
Areas of Solids.
APPROXIMATE COST: \$180 package
APPROXIMATE COST: \$180 package

SUBJECT: Mathematics GRADE LEVEL: 11-12 SYSTEM: Apple II or Apple II Plus Applesoft (Disk) 32% 3.2 DOS or 3.3 DO SECRIPTION: The program assumes students understand polar coordinates, polar graphicing techniques, radian measure of angles and the functions sine (t) cos (t) and their graphs. The program demonstrates the curves formed by r=A+B cos (t) and r=A+B sin (t); to demonstrate graphically the effects of changing A and B in these equations.  APPROXIMATE COST: Unknown  TITLE: Limits of Sequences  SUBJECT: Mathematics GRADE LEVEL: 11-12 SYSTEM: Apple II Plus 32K DOS 3.2 or 3.3 Applesoft  DESCRIPTION: The program graphically displays approximately 55 terms of a sequence. The epsilon neighborhood of the limit is drawn with the value of epsilon. The threshold value, M, is then computed and printed. The 5 menu selections enable the user to choose a suggested sequence or to specify his/her own sequence choice.  APPROXIMATE COST: Unknown  APPROXIMATE COST: Unknown  TITLE: GRADE LEVEL: SYSTEM: GRADE LEVEL:	mīm n. •	
SYSTEM: Apple II or Apple II Plus Applesoft (Disk) 32K 3.2 DOS or 3.3 DO DESCRIPTION: The program assumes students understand polar coordinates, polar graphicing techniques, radian measure of angles and the functions sine (t) cos (t) and their graphs. The program demonstrates the curves formed by r=A+B cos (t) and r=A+B sin (t); to demonstrate graphically the effects of changing A and B in these equations.  APPROXIMATE COST: Unknown  TITLE: Limits of Sequences  SUBJECT: Mathematics GRADE LEVEL: 11-12  Apple II Plus 32K DOS 3.2 or 3.3 Applesoft  DESCRIPTION: The program graphically displays approximately 55 terms of a sequence. The epsilon neighborhood of the limit is drawn with the value of epsilon. The threshold value, N, is then computed and printed. The 5 menu selections enable the user to choose a suggested sequence or to specify his/her own sequence choice.  APPROXIMATE COST: Unknown  APPROXIMATE COST: Unknown  DESCRIPTION: GRADE LEVEL: SYSTEM:  DESCRIPTION: GRADE LEVEL: SYSTEM:  DESCRIPTION:	TITLE: 1	Limacons and Their Areas
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sine (t) cos (t) and their graphs. The program demonstrates the curves formed by r=A+B cos (t) and r=A+B sin (t); to demonstrate graphically the effects of changing A and B in these equations.  APPROXIMATE COST: Unknown  TITLE: Limits of Sequences  SUBJECT: Mathematics GRADE LEVEL: 11-12  SYSTEM: Apple II Plus 32K DOS 3.2 or 3.3 Applesoft  DESCRIPTION: The program graphically displays approximately 55 terms of a sequence. The epsilon neighborhood of the limit is drawn with the value of epsilon. The threshold value, M, is then computed and printed. The 5 menu selections enable the user to choose a suggested sequence or to specify his/her own sequence choice.  APPROXIMATE COST: Unknown  TITLE:  SUBJECT: GRADE LEVEL:  SYSTEM:  DESCRIPTION:	DESCRIPTION	ON: The program assumes students understand polar coordinates,
formed by r=A+B cos (t) and r=A+B sin (t); to demonstrate graphically the effects of changing A and B in these equations.  APPROXIMATE COST: Unknown  TITLE: Limits of Sequences  SUBJECT: Mathematics GRADE LEVEL: 11-12  SYSTEM: Apple II Plus 32K DOS 3.2 or 3.3 Applesoft  DESCRIPTION: The program graphically displays approximately 55 terms of a sequence. The epsilon neighborhood of the limit is drawn with the value of epsilon. The threshold value, M, is then computed and printed. The 5 menu selections enable the user to choose a suggested sequence or to specify his/her own sequence choice.  APPROXIMATE COST: Unknown  TITLE: GRADE LEVEL: SUBJECT: GRADE LEVEL: SYSTEM: GRADE LEVEL: SYSTEM:	polar gra	aphicing techniques, radian measure of angles and the functions
approximate Cost: Unknown  TITLE: Limits of Sequences  SUBJECT: Mathematics GRADE LEVEL: 11-12  SYSTEM: Apple II Plus 32K DOS 3.2 or 3.3 Applesoft  DESCRIPTION: The program graphically displays approximately 55 terms of a sequence. The epsilon neighborhood of the limit is drawn with the value of epsilon. The threshold value, M, is then computed and printed. The 5 menu selections enable the user to choose a suggested sequence or to specify his/her own sequence choice.  APPROXIMATE COST: Unknown  TITLE:  SUBJECT: GRADE LEVEL: SYSTEM:  DESCRIPTION:	sine (t)	cos (t) and their graphs. The program demonstrates the curves
APPROXIMATE COST: Unknown  TITLE: Limits of Sequences  SUBJECT: Mathematics GRADE LEVEL: 11-12  SYSTEM: Apple II Plus 32K DOS 3.2 or 3.3 Applesoft  DESCRIPTION: The program graphically displays approximately 55 terms of a sequence. The epsilon neighborhood of the limit is drawn with the value of epsilon. The threshold value, M, is then computed and printed. The 5 menu selections enable the user to choose a suggested sequence or to specify his/her own sequence choice.  APPROXIMATE COST: Unknown  TITLE:  SUBJECT: GRADE LEVEL: SYSTEM:  DESCRIPTION:	effects of	y I=A+B cos (t) and r=A+B sin (t); to demonstrate graphically the
TITLE: _Limits of Sequences  SUBJECT: _Mathematics	errects	or changing A and B in these equations.
TITLE: _Limits of Sequences  SUBJECT: _Mathematics		
TITLE: _Limits of Sequences  SUBJECT: _Mathematics		
TITLE: _Limits of Sequences  SUBJECT: _Mathematics		
SUBJECT: Mathematics GRADE LEVEL: 11-12  SYSTEM: Apple II Plus 32K DOS 3.2 or 3.3 Applesoft  DESCRIPTION: The program qraphically displays approximately 55 terms of a sequence. The epsilon neighborhood of the limit is drawn with the value of epsilon. The threshold value, M, is then computed and printed. The 5 menu selections enable the user to choose a suggested sequence or to specify his/her own sequence choice.  APPROXIMATE COST: Unknown  TITLE:  SUBJECT: GRADE LEVEL: SYSTEM:  DESCRIPTION:	APPROXIMA	TE COST: Unknown
SUBJECT: Mathematics GRADE LEVEL: 11-12  SYSTEM: Apple II Plus 32K DOS 3.2 or 3.3 Applesoft  DESCRIPTION: The program qraphically displays approximately 55 terms of a sequence. The epsilon neighborhood of the limit is drawn with the value of epsilon. The threshold value, M, is then computed and printed. The 5 menu selections enable the user to choose a suggested sequence or to specify his/her own sequence choice.  APPROXIMATE COST: Unknown  TITLE:  SUBJECT: GRADE LEVEL: SYSTEM:  DESCRIPTION:		
SUBJECT: Mathematics GRADE LEVEL: 11-12  SYSTEM: Apple II Plus 32K DOS 3.2 or 3.3 Applesoft  DESCRIPTION: The program qraphically displays approximately 55 terms of a sequence. The epsilon neighborhood of the limit is drawn with the value of epsilon. The threshold value, M, is then computed and printed. The 5 menu selections enable the user to choose a suggested sequence or to specify his/her own sequence choice.  APPROXIMATE COST: Unknown  TITLE:  SUBJECT: GRADE LEVEL: SYSTEM:  DESCRIPTION:		
SUBJECT: Mathematics GRADE LEVEL: 11-12  SYSTEM: Apple II Plus 32K DOS 3.2 or 3.3 Applesoft  DESCRIPTION: The program qraphically displays approximately 55 terms of a sequence. The epsilon neighborhood of the limit is drawn with the value of epsilon. The threshold value, M, is then computed and printed. The 5 menu selections enable the user to choose a suggested sequence or to specify his/her own sequence choice.  APPROXIMATE COST: Unknown  TITLE:  SUBJECT: GRADE LEVEL: SYSTEM:  DESCRIPTION:		
SUBJECT: Mathematics GRADE LEVEL: 11-12  SYSTEM: Apple II Plus 32K DOS 3.2 or 3.3 Applesoft  DESCRIPTION: The program qraphically displays approximately 55 terms of a sequence. The epsilon neighborhood of the limit is drawn with the value of epsilon. The threshold value, M, is then computed and printed. The 5 menu selections enable the user to choose a suggested sequence or to specify his/her own sequence choice.  APPROXIMATE COST: Unknown  TITLE:  SUBJECT: GRADE LEVEL: SYSTEM:  DESCRIPTION:	TITLE .	Timits of Cosmones
DESCRIPTION:  The program graphically displays approximately 55 terms of a sequence. The epsilon neighborhood of the limit is drawn with the value of epsilon. The threshold value, M, is then computed and printed. The 5 menu selections enable the user to choose a suggested sequence or to specify his/her own sequence choice.  APPROXIMATE COST:  Unknown  TITLE:  SUBJECT:  SYSTEM:  DESCRIPTION:  DESCRIPTION:		Limits of Sequences
DESCRIPTION:  The program graphically displays approximately 55 terms of a sequence. The epsilon neighborhood of the limit is drawn with the value of epsilon. The threshold value, M, is then computed and printed. The 5 menu selections enable the user to choose a suggested sequence or to specify his/her own sequence choice.  APPROXIMATE COST:  Unknown  TITLE:  SUBJECT:  SYSTEM:  DESCRIPTION:  DESCRIPTION:	SUBJECT:	Mathematics GRADE LEVEL: 11-12
a sequence. The epsilon neighborhood of the limit is drawn with the value of epsilon. The threshold value, M, is then computed and printed. The 5 menu selections enable the user to choose a suggested sequence or to specify his/her own sequence choice.  APPROXIMATE COST: Unknown  TITLE:  SUBJECT: GRADE LEVEL: SYSTEM:  DESCRIPTION:	SYSTEM:	
a sequence. The epsilon neighborhood of the limit is drawn with the value of epsilon. The threshold value, M, is then computed and printed. The 5 menu selections enable the user to choose a suggested sequence or to specify his/her own sequence choice.  APPROXIMATE COST: Unknown  TITLE:  SUBJECT: GRADE LEVEL: SYSTEM:  DESCRIPTION:		
of epsilon. The threshold value, M, is then computed and printed. The  5 menu selections enable the user to choose a suggested sequence or to specify his/her own sequence choice.  APPROXIMATE COST: Unknown  TITLE:  SUBJECT: GRADE LEVEL: SYSTEM:  DESCRIPTION:		
5 menu selections enable the user to choose a suggested sequence or to specify his/her own sequence choice.  APPROXIMATE COST: Unknown  TITLE:  SUBJECT: GRADE LEVEL: SYSTEM:  DESCRIPTION:	a sequenc	
specify his/her own sequence choice.  APPROXIMATE COST: Unknown  TITLE:  SUBJECT: GRADE LEVEL:  SYSTEM:  DESCRIPTION:		
APPROXIMATE COST: Unknown  TITLE:  SUBJECT: GRADE LEVEL: SYSTEM:  DESCRIPTION:		
TITLE:  SUBJECT: SYSTEM:  DESCRIPTION:	specify i	its/her own sequence choice.
TITLE:  SUBJECT: SYSTEM:  DESCRIPTION:		
SUBJECT: GRADE LEVEL: SYSTEM:  DESCRIPTION:	APPROXIMA	TE COST: Unknown
SUBJECT: GRADE LEVEL: SYSTEM:  DESCRIPTION:	·	
SUBJECT: GRADE LEVEL: SYSTEM:  DESCRIPTION:		
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SUBJECT: GRADE LEVEL: SYSTEM:  DESCRIPTION:	TITLE:	
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DESCRIPTION:	SUBJECT:	GRADE LEVEL:
	DESCRIPTI	ON:
APPROXIMATE COST:	APPROXIMA	TE COST:

TITLE:	Clef Drill
SUBJECT:	Music GRADE LEVEL: 3-8
SUBJECT:	Commodore/PET (Disk)
SISTEM:	Commodore/FET (DISK)
DESCRIPT	MION: This program includes 4 different clefsbass, alto, tenor
	ble. Student practices identifying notes in the selected clef.
Student	can select the number of notes on which he/she desires to work.
ADDDOVIN	MATE COST: Public Domain
AFFROXII.	MIE COSI: FUDITE DOMAIN
TITLE:_	Music Composer
SUBJECT:	: Music GRADE LEVEL: 3-12
SYSTEM:	Atari 400/800 (Cartridge)
DECCRIP	TION: The Music Composer cartridge turns the computer into a
program	mable musical instrument. It is capable of playing up to 4 simul-
taneous	notes in a 3 octave range through the TV speaker. Has a 20-page
instruc	tion manual.
	use the program, the user must first write his/her music. This is
done by	the use of the "Edit Music" function. The user is allowed up to
10 "phr	ases" with as many measures per phrase as desired. Notes are
entered	on a displayed staff in a "note letter," "octave number," "note on" format. After the user has edited and arranged his/her music,
	be listened to or saved. Program does have several limitations.
APPROXIN	MATE COST: \$59.95
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	on,
TITLE:	
SUBJECT:	
SYSTEM:	
	TTO:
DESCRIP'	TION:
APPROXI	MATE COST:

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TITLE: Sunday Golf	
SUB-TECT: Physical Education	GRADE LEVEL: 4-10
SUBJECT: Physical Education SYSTEM: Atari 400/800 8K (Cassette)	
DESCRIPTION: Sunday Golf is a game simula	ation of a 9-hole golf course,
complete with sand traps, roughs, and term	rain. Up to 4 "golfers" can
play, choosing the Long or Short Course of	ption. Of course, the object
is to complete the course with as few stro	okes as possible.
Each hole is designed randomly by the	e computer, with distance and
par displayed. The user must determine when the det	hich club to usewoods (4),
irons (9) or wedge. The beginning instruc-	tions show the approximate
yardage capability of each club and the u	nits used to determine the
direction of hit.	
APPROXIMATE COST: \$9.95	
ritle:	
CIP TEON.	GRADE LEVEL:
SUBJECT:	GRADE LEVEL:
SISTEM:	
DESCRIPTION:	
DESCRIPTION:	
APPROXIMATE COST:	
PITLE:	
	COLOR ARIEN
SUBJECT:	GRADE LEVEL:
SYSTEM:	
DESCRIPTION:	
DESCRIPTION:	
APPROXIMATE COST:	

TITLE: Preschool Fun
SUBJECT: Reading GRADE LEVEL: Preschl -1
SYSTEM: Atari 400/800 8K (Cassette)
DESCRIPTION: Preschool Fun is a 2-program cassette designed to help
teach the preschooler colors, numbers, shapes, letters (both capital
and small), and directions (left, right, up, down). Along with all that.
the package can also be used to introduce computers to young children.
The ideas in the package are presented in a similar format for the
non-reading child. The format first prompts the child with the correct
answer, then asks the child to determine the answer on his/her own.
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APPROXIMATE COST: \$15
TITLE: Letters and Numbers
SUBJECT: Reading GRADE LEVEL: K-1
SYSTEM: Commodore/PET 8K (Cassette)
DIDIBIT. Continued by 122 of Continued by 122
DESCRIPTION: The program drills students on number and letter recognition
Letters and numbers presents exercises for upper and lower-case letters
and numbers. The user may choose among exercises to drill via matching,
sequence completion, and filling in the character. Upper-case letters
can be matched with lower-case letters, and vice versa. Characters are
displayed in large sizes.
APPROXIMATE COST: \$20
TITLE: Speed Reading & Comprehension
111111. Speed Reading & Comprehension
SUBJECT: Reading GRADE LEVEL: 2-12
SYSTEM: Commodore/PET 16K (Cassette or Disk)
DESCRIPTION: The student reads text passages which are followed by
comprehension tests. A rapid scan of a text passage is presented, fol-
lowed by a line-by-line presentation of the same text for reading. Lastly,
a multiple-choice quiz is given to measure the student's comprehension.
The speed of text presentation may be increased or decreased by the reader
while reading is going on and without stopping the program. The reader's
speed and comprehension level is reported after the end of each session.
APPROXIMATE COST: 6 program cassette \$49.94 disk \$59.95
APPROXIMATE COST: O Program Cassecce 943.34 drsk 953.35

TITLE: Reading Programs
SUBJECT: Reading GRADE LEVEL: 3-6
SYSTEM: Commodore/PET (Disk)
DESCRIPTION: A series designed to master basic word attack patterns for
dependable sound/symbol correspondence. 1,000 words taught in the series
"Of", "to" and "the" do not have a regular correspondence. Begins with a
sentence on the screen for the student to type. Correct responses are
reproduced and reinforced. The learner pronounces each word and is moni-
tored. The screen clears after sentence is typed for the first time, then
reappears with a word missing. Sentence is typed again and reappears
with another part missing. Eventually, the learner types the entire
sentence from memory. Performance is summarized.
APPROXIMATE COST: Complete set of 4 Type to Read Programs \$511 75
TITLE: Critical Reading, Microsystem 80
CITCICAL REAGING, MICHOSYSCEM 60
SUBJECT: Reading/Logic GRADE LEVEL: 4-8
SYSTEM: Apple II 48K 3.3 DOS (Printer for management only)
DESCRIPTION: This is a supplemental reading program with special assis-
tance for students who are low in comprehension. In simple to fairly
complex paragraphs the user must eliminate the "or" statement or the
"and" statement. Ultimately, the student is introduced to several rules
of inference.
Good instructions and documentation.
APPROXIMATE COST: \$750 (lease option)
ALTRONIMIE COST. THE COST.
TITLE: Comprehension Power Program
SUBJECT: Reading GRADE LEVEL: 4-12
SYSTEM: Apple II Plus 48K DOS 3.3
DESCRIPTION: 108 reading selections. Each level consists of 12 lessons
on 4 diskettes. Step 1: Vocabulary Introduction: The student reviews
the key words in context sentences. Step 2: The student displays seg-
ment of a reading selection in a preview allowing time to read, compre-
hend, and assimilate before displaying the next segment. At the end of
the preview, 2 questions are presented and the student is given immediate feedback on both. Step 3: The student sets a reading rate and reads the
selection as it is displayed. Each segment is followed by 1-3 compre-
hensive questions. Comprehension skills include: literal understanding,
interpretation, analysis, evaluation, and appreciation.
APPROXIMATE COST: \$150
WELVOVIMMIE COST: ATTA

TITLE: Odell I	· · · · · · · · · · · · · · · · · · ·	
SUBJECT: Science	GRADE LEVEL:	4-10
SYSTEM: Apple II 48K (Disk)		4-10
SISIEM: Apple II 48K (DISK)		
DESCRIPTION: Program assumes that students	have been introduce	d to
food chains and webs and provided with defi		
Helps students to understand the concept of		
program explains the role of each animal ar		
on lake and lake on man. Defines words rel		
APPROXIMATE COST: Unknown		
TITLE: Science, Volume 3, MECC		
SUBJECT: Science	GRADE LEVEL:	5-8
SYSTEM: Apple II 32K 3.3 DOS		·
200	2 01 11 70	1 11003
DESCRIPTION: Diskette contains 5 separate		
are same simulation as on Elementary Volume		
demonstrating how to locate an earthquake e		
demonstration of the circulatory system of		
heart. Minerals puts the user in the role an unknown mineral.	or scientist searchi	ng out
Documentation is good.		
bocumentation is good.		
APPROXIMATE COST: \$29.95		
ATTROXIMIL COST. V25.55		
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TITLE: Life Expectancy		
SUBJECT: Science	GRADE LEVEL:	5-12
SYSTEM: Commodore/PET (Disk)		
DESCRIPTION: This program includes a number	er of questions to wh	ich the
user responds. The questions are similar t		
ance companies when plotting life-expectance		ncludes
with a projection of life-expectancy based	upon entries.	
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APPROXIMATE COST: Public Domain		

TITLE: Pool
SUBJECT: Science GRADE LEVEL: 6-9
SYSTEM: TRS-80 (Disk)
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DESCRIPTION: The display screen shows a 1-pocket pool table. The user
notes the location of the ball on the table and makes guesses about the
angel the ball must bounce off the rail to proceed into the pocket.  Cues are presented to help the student know where the ball will strike.
Helps to demonstrate the principle of refraction. Score is maintained
by the computer.
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APPROXIMATE COST: Public Domain
FITLE: Polut
SUBJECT: Science/Ecology GRADE LEVEL: 6-10
SUBJECT: Science/Ecology GRADE LEVEL: 6-10 SYSTEM: Commodore/PET 32K (Disk)
Total Jan (DISK)
DESCRIPTION: Program allows students to investigate a body of water
undergoing pollution. Several different types of water bodies, from a
small pond to a fast moving stream, may be studied. Students are to vary
several factors and to see effects on pollution and dissolved oxygen
levels in the water; the factors include temperature, type of pollutant,
and type of treatment the pollutant receives before entering the water.
Effects are reported in a table, a graph, or both.
Documentation (available separately) includes a teacher's guide, a
student workbook, and a resource handbook.
APPROXIMATE COST: \$50
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CITLE: Tari Trek
WD TROM. Coi.
SUBJECT: Science GRADE LEVEL: 6-12 SYSTEM: Atari 24K (Cassette) and 32K (Diskette)
Atali 24k (Cassette) and 32k (Diskette)
DESCRIPTION: Get ready for an exciting trek through space. Your mission
is to rid the galaxy of Klingon warships, and to accomplish this you
must use strategy to guide the starship Enterprise around stars, through
space storms, etc. At the higher levels, users play against elapsed
time.
PPROXIMATE COST: Cassette \$11.95 Diskette \$14.95

TITLE: The Atom
SUBJECT: Science GRADE LEVEL: 7-12
SYSTEM:Commodore/PET 16K (Disk)
DESCRIPTION: Text, tables and graphics are used to present the basic
principles of atomic structure. Protons, electrons, neutrons, and the
atomic number and weight of atoms are introduced and the student is asked
to apply the principles learned. The questions are randomly selected
from a bank of 30.
APPROXIMATE COST: \$14.95
TITLE: Pop
SUBJECT: Science: Biology GRADE LEVEL: 7-12
SYSTEM: Commodore/PET 32K (Disk)
DESCRIPTION: This program allows students to examine the population
dynamics of simple organisms. The simulation allows students to investi-
gate 3 different population growth models: exponential, logistic, and
logistic modified for low density. It enables one to explore the effects
of reproductive rates, high and low population densities, and initial pop-
ulation growth. The student specifies parameters and then the program
graphs population over time. Up to 4 graphs may be superimposed to permi
comparison of effects. Documentation (available separately) includes a
teachers guide, a student workbook, and a resource handbook.
APPROXIMATE COST: \$50
TITLE: Human Eye
SUBJECT: Science GRADE LEVEL: 8-12
SYSTEM: TRS-80 (Disk)
DESCRIPTION: A graphic representation of the human eye is placed on
the display screen with numbers marking the various parts of the eye.
The user is given the name of the part of the eye and responds by in-
dicating the corresponding number. Program is written to give the user
an unlimited opportunity to select the correct response.
an unitabled opportunity to select the collect lesponse.
APPROXIMATE COST: Public Domain

TITLE: Human Heart	
SUBJECT: Science	GRADE LEVEL: 8-12
SYSTEM: TRS-80 (Disk)	
DESCRIPTION: A graphic representation of the 1	numan heart is placed on
the display screen with numbers marking the var	rious parts of the heart.
The user is given the name of a part of the hea	art and responds by in-
dicating the corresponding number. Program is	written to give the user
an unlimited opportunity to select the correct	response.
APPROXIMATE COST: Public Domain	
Table Bonain	
<del></del>	
TITLE: Crypto	
SUBJECT: Science	GRADE LEVEL: 9-12
SYSTEM: Commodore/PET 8K minimum (Cassette)	
The state of the s	
DESCRIPTION: Designed to greate grantegrans for	
DESCRIPTION: Designed to create cryptograms fr	om various lines of text
which are entered by the students. Either a se	cond player or the computer
will decipher the message when a code number is	entered.
APPROXIMATE COST: \$15	
TITLE: Density	
SUBJECT: Science	GRADE LEVEL: 9-12
SYSTEM: Commodore/PET (Disk)	
DESCRIPTION: The user is offered a number of o	pportunities for drill and
practice in computing density and volume. The	student enters both values
and then checks his/her answers against the com	puter generated answer. A
note pad for personal computations is required.	The second diswell. A
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ADDDON'T WARD COOK	
APPROXIMATE COST: Public Domain	

TITLE: E	Electronics
	Science GRADE LEVEL: 9-12
SUBJECT:_	
SISTEM:	TRS-8J Model I
DESCRIPTIO	ON: This program tests a student's knowledge of the Ohm's Law
	plating I and R. This program assumes that the student knows
	v thoroughly. No instructions are given on it. Immediate
	ement is given.
	321010
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APPROXIMA:	TE COST: \$24.95
TITLE:	enetics
	Science GRADE LEVEL: 9-12
SUBJECT:_	Commodore/PET 16K (Disk)
SYSTEM: _	COMMODOTE/FET TOR (DISK)
DECCRIPMI/	ON: This program presents a 3-generation family tree with
	genetic traits. The learner is then asked whether the trait is
	y a dominant, recessive, or sex-linked gene. If an incorrect
	s given, the student has the option of getting an explanation
	by the computer.
Duppiled	Dy the compact.
APPROXIMA'	TE COST: \$20
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TITLE: 1	Mellstar
	CRAPE TRUET O 10
SUBJECT:_	Science (Astronomy) GRADE LEVEL: 9-12
SYSTEM: _	Apple II Applesoft 48K (Joystick & Printer) (Disk)
DESCRIPTION	ON: Tellstar shows actual celestial bodies visible at any
	place and time specified by the user. It also provides data
	equested body.
on any re	.g. 200 000 200 1 .
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APPROXIMA	TE COST: \$39.95

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TITLE: Weatherman	
SUBJECT: Science	GRADE LEVEL: 9-12
SYSTEM:Commodore/PET (Disk)	
DESCRIPTION: There are 4 computation program	s contained in this package:
1) Temperature Conversion, e.g. Celsius, Fahr	enheit, Kelvin and Rankine.
2) Temperature/Humidity Index	
3) Wind Chill Equivalent Temperatures.	
4) Relative Humidity and Dew Point.	
Separate computation note pad is necessar	ary.
APPROXIMATE COST: Public Domain	
MIMIE. B	
TITLE: Energy and the Inclined Plane	
CIT TROTT	
SUBJECT: Science (Physics)	GRADE LEVEL: 10-12
SYSTEM: Commodore/PET (Disk)	
DECORPORATION Comments of 10	
DESCRIPTION: Generates a series of 10 questi	ons dealing with the analysis
of the motion of a particle on an inclined pl	ane. The concepts of work,
kinetic energy and potential are thus reviewe	d.
	· · · · · · · · · · · · · · · · · · ·
APPROXIMATE COST: \$20	
TITLE: Kinematics	
TITLE: Kinematics  SUBJECT: Science (Physics)	GRADE LEVEL: 10-12
TITLE: Kinematics	GRADE LEVEL: 10-12
TITLE: Kinematics  SUBJECT: Science (Physics)  SYSTEM: Commodore/PET 8K (Cassette)	
SYSTEM: Commodore/PET 8K (Cassette)  DESCRIPTION: This program gives practice in	computating questions re-
TITLE: Kinematics  SUBJECT: Science (Physics)  SYSTEM: Commodore/PET 8K (Cassette)  DESCRIPTION: This program gives practice in garding velocity, average acceleration, and descriptions.	computating questions re-
TITLE: Kinematics  SUBJECT: Science (Physics)  SYSTEM: Commodore/PET 8K (Cassette)  DESCRIPTION: This program gives practice in garding velocity, average acceleration, and distudent answers questions from a graph or from	computating questions re- istance travelled. The m their own computations.
TITLE: Kinematics  SUBJECT: Science (Physics)  SYSTEM: Commodore/PET 8K (Cassette)  DESCRIPTION: This program gives practice in garding velocity, average acceleration, and distudent answers questions from a graph or from the answer is incorrect the first time, the	computating questions re- istance travelled. The m their own computations. e program either tells the
TITLE: Kinematics  SUBJECT: Science (Physics)  SYSTEM: Commodore/PET 8K (Cassette)  DESCRIPTION: This program gives practice in garding velocity, average acceleration, and distudent answers questions from a graph or from the answer is incorrect the first time, the student to check the graph or gives the student.	computating questions re- istance travelled. The m their own computations. e program either tells the nt the relevant formula.
TITLE: Kinematics  SUBJECT: Science (Physics)  SYSTEM: Commodore/PET 8K (Cassette)  DESCRIPTION: This program gives practice in garding velocity, average acceleration, and distudent answers questions from a graph or from If the answer is incorrect the first time, the student to check the graph or gives the student on a second error, it displays the formula, contact the formula, contact the first time.	computating questions re- istance travelled. The m their own computations. e program either tells the nt the relevant formula.
TITLE: Kinematics  SUBJECT: Science (Physics)  SYSTEM: Commodore/PET 8K (Cassette)  DESCRIPTION: This program gives practice in garding velocity, average acceleration, and distudent answers questions from a graph or from the answer is incorrect the first time, the student to check the graph or gives the student.	computating questions re- istance travelled. The m their own computations. e program either tells the nt the relevant formula.
TITLE: Kinematics  SUBJECT: Science (Physics)  SYSTEM: Commodore/PET 8K (Cassette)  DESCRIPTION: This program gives practice in garding velocity, average acceleration, and distudent answers questions from a graph or from If the answer is incorrect the first time, the student to check the graph or gives the student on a second error, it displays the formula, contact the formula, contact the first time.	computating questions re- istance travelled. The m their own computations. e program either tells the nt the relevant formula.
TITLE: Kinematics  SUBJECT: Science (Physics)  SYSTEM: Commodore/PET 8K (Cassette)  DESCRIPTION: This program gives practice in garding velocity, average acceleration, and distudent answers questions from a graph or from If the answer is incorrect the first time, the student to check the graph or gives the student on a second error, it displays the formula, contact the formula, contact the first time.	computating questions re- istance travelled. The m their own computations. e program either tells the nt the relevant formula.
TITLE: Kinematics  SUBJECT: Science (Physics)  SYSTEM: Commodore/PET 8K (Cassette)  DESCRIPTION: This program gives practice in a garding velocity, average acceleration, and distudent answers questions from a graph or from the student to check the graph or gives the student on a second error, it displays the formula, contacts the second error, it displays the formula, contacts the second error.	computating questions re- istance travelled. The m their own computations. e program either tells the nt the relevant formula.

TITLE:	Naming Compounds		
SIB TECT:	Science	GRADE LEVEL:	10-12
	Commodore/PET (Disk)		10-12
01010	COMMOGOTE/FET (DISK)		<del></del>
DESCRIPT	TON: Users are either gi	ven the name of a compound and ar	a sked
		r they are given a formula and as	
		Score is kept by the computer	
suppry	zed at the conclusion of	the program	and
Samuali	ted at the conclusion of	the program:	
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APPROXIM	ATE COST: Public Domain		
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TITLE:	Physics Computab		
CIP TROP	Science (Physics)	CDARE TEVEL	10-12
	Apple II Plus 48K (Disk	GRADE LEVEL:	10-12
SYSTEM:	Appre 11 Plus 48k (Disk	3	
		ted experiments that enable stude	
experim	entally investigate conc	epts and phenomena that are diffi	cult or
		conventional lab. Students make	
		e same way they measure real even	
these e	kperiments can be used i	n conjunction with conventional e	xperiments
to eval	late the Students' overa	ll laboratory experience.	
APPROXIM	ATE COST: \$495 - 6 disk	ettes, six manuals, one guide	
TITLE:	Physics Programs I		
SUBJECT:	Science (Physics)	GRADE LEVEL:	10-12
SYSTEM:	Apple II Plus or Commod	ore (Disk)	
		rams includes practice and proble	
		cs, Projectile Motion, Momentum a	
		Inelastic Collisions, Centripetal	
Pulley 3	System-Machines, Vector	Analysis I, Vector Analysis II, P	
Analysis	and Calorimetry Analys	is.	
APPROXIM	ATE COST: \$180		_

TITLE: Physics Program II
SUBJECT: Science (Physics) GRADE LEVEL: 10-12
SYSTEM: Apple II Plus or Commodore (Disk)
DESCRIPTION: This series of programs includes practice and problems on
such topics as: Specific Gas Laws, General Gas Law, Thermodynamics I,
Thermodynamics II, Transverse Standing Waves, Longitudinal Standing
Waves, Mirrors and Lenses, Refraction of Light, Series Circuit Analysis,
Parallel Circuit Analysis I, Parallel Circuit Analysis II, Series/Parallel
Analysis, Electric Field Analysis, Photoelectric Effect, Projectile Analysis
Sis.
ADDDOVINAME COCM. 6100
APPROXIMATE COST: \$180
mark no and the second of the
TITLE: Pulley-System Machines
SUBJECT: Science (Physics) GRADE LEVEL: 10-12
SYSTEM: Commodore/PET (Disk)
DESCRIPTION: Generates a series of 7 questions dealing with the analysis
of a pulley system consisting of a single, double, or triple fixed and
moveable blocks. The concepts of work and efficiency are thus reviewed.
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APPROXIMATE COST: \$20
21.07.11.11.11.11.11.11.11.11.11.11.11.11.11
TITLE: Stoichiometry: General
TITLE: SCOTCHIOMECTY: General
CIT TECT. Science (Chemistus)
SUBJECT: Science (Chemistry) GRADE LEVEL: 10-12
SYSTEM: Commodore/PET (Disk)
DECONTRACTOR COMMENTS OF THE C
DESCRIPTION: Generates a series of questions dealing with stoichiometric
relationships in chemical reactions. Mass/mass, mass/volume, and volume/
volume problem types are randomly generated.
APPROXIMATE COST: \$20

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gan.	η,	٦.

ITLE: Symbols and Valences Drill	
UBJECT: Science (Chemistry)	GRADE LEVEL: 10-12
YSTEM: Commodore/PET (Disk)	
ESCRIPTION: Students are given practice	
valences of the common ions and radical	ls encountered in elementary
courses.	
APPROXIMATE COST: \$20	
27 ROXIIIAIL COS1. 320	
TITLE:	
SUBJECT:	GRADE LEVEL:
SYSTEM:	
DESCRIPTION:	
APPROXIMATE COST:	
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ritle:	
TIP TECH.	CDADE LEVEL.
SUBJECT:	GRADE DEVEL.
,101Lii.	
DESCRIPTION:	
APPROXIMATE COST:	

TITLE: Picture Kingdom	
CUR TROM	GRADE LEVEL: 4-9
SUBJECT: Social Studies	GRADE LEVEL: 4-9
SYSTEM: Commodore/PET (Disk)	
DESCRIPTION: This simulation game is played	by having the user act as a
ruler, e.q., king or queen. By manipulati	
changing populationin light of rats, dis	
the ruler has to make well-calculated deci	
•	
•	
APPROXIMATE COST: Public Domain	
TITLE: States & Capitals	
SUBJECT: Social Studies	GRADE LEVEL: 4-10
SYSTEM: Atari 400/800 (Cassette)	
DESCRIPTION: States and Capitals is a learn	
knowledge of both the states and their cap	
location. A map of the United States is d	rawn and a state is outlined.
The object is to first name the state and	then its capital, spelling both
correctly. The number of correctly identi	fied states and capitals are
shown throughout the game.	
APPROXIMATE COST: \$14.95	
Chahag	
TITLE: States	
	CONDETERMINATION OF THE PROPERTY OF THE PROPER
SUBJECT: Social Studies	GRADE LEVEL: 4-11
SYSTEM: TRS-80 (Disk)	
DESCRIPTION: main and in location of the sh	and the geographic location on
DESCRIPTION: This program is designed to sh	
a map of the United States. The location	
Students are asked to name the capital and	
elect to try his/her skill by giving the c	offect responses in alphabetical
or random order.	
ADDDOYTMANT COCM. Public Domain	
APPROXIMATE COST: Public Domain	

TITLE: Edu-Disks (Readers Digest)	
our mon as is last in Duckley Collins	GRADE LEVEL: 5-8
	GRADE LEVELT: 5-8
SYSTEM: Apple II Plus, Atari, TRS-80	
DESCRIPTION: Teaches techniques in logical thin	nking and decision-making
at grade levels 5-8. Highly interactive, it a	llows the learner to move
comfortably from the concrete to the abstract	
a mathematics and science curriculum and, beca	
intimately associated with the interpretation	
to enrich an English or reading curriculum.	or words, car were serve
APPROXIMATE COST: \$174.96 - Level 5-6	
\$174.96 - Level 7-8	
TITLE: Africa & Asia	
TITLE: Allica a Asia	
SUBJECT: Social Studies	GRADE LEVEL: 5-9
SYSTEM: Commodore/PET (Disk)	
Sigilar. Commodele, rat (213K)	
DESCRIPTION: This program offers the user a mat	ching exercise to connect
capitals with countries in Africa and Asia. T	
portunities to answer with the correct respons	
advance until the user has given the correct r	
correct spelling of the capital.	
	<del></del>
APPROXIMATE COST: Public Domain	
TITLE: State Guess	
SUBJECT: Social Studies	GRADE LEVEL: 5-10
SYSTEM: TRS-80 Model I/III 16K (Cassette)	
DESCRIPTION: In this program, the student is to	
then answer questions which are posed in the p	
identifies the correct answer, the session is asks for the state's name and the computer wil	
lem as a spelling error (says it never heard o	
incorrect answer to one of the questions asked	
this ends the run.	previously by the program;
allo chao die Luit	
APPROXIMATE COST: \$24.95	

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TITLE: Foreign Capitals
SUBJECT: Social Studies GRADE LEVEL: 7-10
SYSTEM: TRS-80 Model I 16K (Cassette)
DESCRIPTION: This is a program that gives students practice in matching
countries and their capitals. A list of 50 countries are displayed on
the screen with the name of a capital at the bottom. The student enters
the number of the country of the capital shown. If correct, a new capital
appears. If incorrect, the student keeps trying (unlimited trials).
There are two options: 1) all countries remain displayed throughout a
session, and 2) those correctly matched with a city are removed.
Performance is reported after all countries are correctly matched.
APPROXIMATE COST: \$9.95
TITLE: Geography
SUBJECT: Social Studies GRADE LEVEL: 7-12
SYSTEM: Commodore/PET (Disk)
DESCRIPTION: This program is set up in such a way that it contains the
names of states, countries, and major cities. The student is asked to
enter a new name that begins with the last letter of the preceding
answer. Student competes against the computer. Spelling is important.
ADDROVINATE COCT. Public Domain
APPROXIMATE COST: Public Domain
TITLE: World Capitals
SUBJECT: Social Studies GRADE LEVEL: 7-12
SYSTEM: Commodore/PET (Disk)
DESCRIPTION: The program has two different formats and the student works
on one format or the other at any one time. One format gives the name of
the capital and the student is to respond with the correct country rep-
resented. The second format provides the country and the student is to
respond with the name of the captial.
APPROXIMATE COST: Public Domain
AFFROALMATE COST: FUBITO BOMBIN

TITLE: Water				
SUBJECT: Social Studies GRADE LEVEL: 8-10				
SYSTEM: Commodore/PET 32K (Disk)				
DESCRIPTION: The basic concept of this program is for the student to				
acquire some skills in the area of managing water resources in a small				
town. The student manages many factors in a town threatened by imminent				
drought in order to try to save the town. Student has control over				
such factors as flow of water, availability of food, industrial goods,				
current population and budget. The program runs in simulated "real				
time" and the student must make decisions "on the fly."				
APPROXIMATE COST: \$50.00				
TITLE: Energy Czar				
SUBJECT: Social Studies GRADE LEVEL: 8-12				
SYSTEM: Atari 400/800 16K (Cassette)				
DESCRIPTION: In this simulation, the player (the Czar) has the				
power to control energy forms. The Czar can enact legislation				
to promote or restrict various energy supplies. The Czar controls the				
nation's economy. The Czar begins his reign in 1980 and enacts				
legislation for a five year period. Included is an instruction				
man <b>u</b> al.				
APPROXIMATE COST: \$14.95				
TITLE: Hail To The Chief				
SUBJECT: Social Studies GRADE LEVEL: 8-12				
SUBJECT: Social Studies GRADE LEVEL: 8-12				
SYSTEM: TRS-80 48K DOS (Disk)				
SYSTEM: TRS-80 48K DOS (Disk)				
SYSTEM: TRS-80 48K DOS (Disk)  DESCRIPTION: In this program, the student tries to be elected President				
SYSTEM: TRS-80 48K DOS (Disk)  DESCRIPTION: In this program, the student tries to be elected President of the U.S. S/he decides on a particular strategy and executes it, week				
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SYSTEM: TRS-80 48K DOS (Disk)  DESCRIPTION: In this program, the student tries to be elected President of the U.S. S/he decides on a particular strategy and executes it, week by week. Student must make various decisions including what position to take on a variety of issues such as energy policy, what to do about unemployment, women's rights, health, mid-east policy and SALT. Candidates must manage financial aspects of their campaign including fund raising and expenditures. Total package includes four models of				

TITLE: Wall Street Challenge	
SUBJECT: Social Studies GRADE LEVEL: 8-12	_
SYSTEM: Atari 400/800 8K and 16K (Cassette)	
DESCRIPTION: Wall street challenge is a computer simulation game of	
the stock exchange. The player has the opportunity to buy and	
sell 8 different stocks. The player starts with \$50,000 and must	i
decide how much of which stock he wishes to purchase. A chart	
of the recent activity of each stock is available for study, as	
well as a chart of the recent overall action of the Dow-Jones	
average. Fortunes can be made and lost as the Dow Jones average and	$\neg \neg$
the individual stock's values rise and roll.	
the individual scock's values lise and forth	-
APPROXIMATE COST: \$14.95	-
APPROXIMATE COST: V14.33	_
TITLE: MECC, Social Studies, Vol 2	
TITLE: MECC, Social States, 151	
SUBJECT: Social Studies GRADE LEVEL: 9-12	$\neg$
SYSTEM: Apple II Plus 32K. 3/3 DOS (Disk)	$\dashv$
DESCRIPTION: Diskette contains eight programs. Bargain introduces	
user to the collective bargaining process. Continent gives	
practice in naming countries and continents. Country, States and Stat	es
2 are similar programs. Crisis and Fail Safe are dramatic	
simulations that provide decision-making opportunities in an	
highly stressful situation. Minnag may best be used as an example	
of an information retrieval system using a micro-computer	
Of the first the first terms of	
APPROXIMATE COST: \$29.95	
TITLE: New World Explorers	
SUBJECT: Social Studies GRADE LEVEL: 9-12	
SYSTEM: TRS-80 (Level II BASIC) 32K (Disk)	
DESCRIPTION: New World Explorers is a simulation of an early	
explorer's voyage to a new world. Class is divided into teams which	
explorer's voyage to a new world. I lass is divined into comment	
work cooperatively, making daily navigation decisions and mapping	
out the world as it is discovered.	
It is up to each team to discover and map out a new world and	-
to return home safely. Each team takes charge of a boat and must make	
decisions according to daily navigation and exploration based	
on information provided by the computer. Students use accompanying	
booklets. Students learn various simulation experiences and skills	
such as mapping, compass angles, latitude and longitude and record-ke	epin
APPROXIMATE COST: \$150.00	

TITLE: President's Quiz
SUBJECT: Social Studies GRADE LEVEL: 9-12 SYSTEM: Commodore/PET (Disk)
DESCRIPTION: The student is presented with a statement indicating the years the President was in office, e.g., 1865-1869. The student is then asked to give the name of the President (first and last name) that matches the corresponding years. The program is designed to allow two incorrect responses before the correct information is placed on the display screen.
APPROXIMATE COST: Public Domain
TITLE: U.S. Constitution Tutor
SUBJECT: Social Studies GRADE LEVEL: 9-12 SYSTEM: Apple II 48K (Disk)
DESCRIPTION: Aids students who must pass an exam for graduation, immigration, or teacher's certificate. After selecting any answer for the 175 questions, an explanation follows to discuss why the answer was correct or incorrect. Questions are divided into levels of difficulty for beginner, intermediate, and advanced.
APPROXIMATE COST: \$30.00
TITLE:
SUBJECT:GRADE LEVEL:SYSTEM:
DESCRIPTION:
APPROXIMATE COST:

	l l
TITLE: Word Families	
TITE: MOZG TEMPOSO	
SUBJECT: Spelling/Reading GRADE LEVEL: Pri-Sp.	
	Ed.
SYSTEM: Apple II Plus 32K 3.2DOS	
DESCRIPTION: This is a small program with limited usefulness	
Essentially the computer asks the user to substitute one letter	
which would make a new word from the original word shown on the	
Which would make a new word from the trigger of house sight words	
screen. Student needs some knowledge of basic sight words.	
APPROXIMATE COST: \$29.95	
TITLE: Spell 'N Time	
SUBJECT: Spelling GRADE LEVEL: 1-12	
SYSTEM: Apple 16K (Applesoft) (Cassette)	
DESCRIPTION: This program is a timed spelling drill on teacher-	
selected words. The word blinks inside a box and the student	-
spells the word by typing it in another box. Incorrect spelling	
spells the word by typing it in another box. Incorrect spelling	
causes the word to blink inside the box by syllables. If the	
word is still misspelled, it remains in the first box as the	
student types it in the second box.	
APPROXIMATE COST: \$12.95	
TIME: Word Challenger	
TITLE: Word Challenger	
CDADE LEVEL . 2.7	
SUBJECT: Spelling GRADE LEVEL: 3-7	
SYSTEM: TRS-80 Model I/III 16K (Cassette)	
DESCRIPTION: This is a Hangman-like game in which one or two	
players try to guess a hidden phrase, one letter at a time. The	
phrases are supplied by the computer in one-player games or by	
the opponent if two are playing. The program keeps score as	
	+
the game progresses, deducting 2 points for each incorrect consonan	<u> </u>
and 10 points for vowels not in the phrase. The program uses	
sound and graphics extensively.	
APPROXIMATE COST: \$9.95	
APPROXIMATE COST: \$9.95	

TITLE: Compu-Spell	
air man S. 11	
SUBJECT: Spelling SYSTEM: Apple II Plus 48K DOS 3.3 (Disk)	GRADE LEVEL: 4-8
SISTEM: Apple II Pids 48k DOS 3.3 (Disk)	
DESCRIPTION: A positive reinforcement system of	designed for allegan
usage Compu-Spell features many of the most	t frequently misspelled
words in the English language. (Each conta	ains about 800-1200
spelling words displayed in sentences.)	2200
APPROXIMATE COST. \$29.95	
APPROXIMATE COST: \$29.95	
TITLE: Spell Endings	
SUBJECT:Spelling	GRADE LEVEL: 4-9
SYSTEM: Commodore/PET (Disk)	
DESCRIPTION: The student is given a number of	words picked at
random by the computer and then the user is	to apply the correct
ending, e.g., ing, ed, or plurals. The pro	gram will repeat
those endings that are incorrect. Correct are summarized at the conclusion of the pro-	and incorrect totals
are samularized at the conclusion of the pro-	gram.
APPROXIMATE COST: Public Domain	
rITLE: Spelling Rules	
.11111.	
UBJECT Spelling	CDADE LEIDT 5-8
SYSTEM: Apple II (Applesoft) 32K 3.2 or 3.3	GRADE LEVEL: 5-8 DOS (Disk)
	DOS (DISK)
DESCRIPTION: Introduces six common rules for	use in spelling
English words and provides practice and mast	ery testing in their
use. The rules cover: the use of ie and ei:	when to use a final
e; adding k; final consonants; suffixes cede	e, ceed, and sede; when
to use a final y.	
PPROXIMATE COST: \$29.95	
PPROXIMATE COST: \$29.95	

TITLE: The Word Ma	irket	
SUBJECT: Spelling		GRADE LEVEL: 7-8
SYSTEM: Commodore/I	PET (Disk)	
	rogram is in game forma	
	especially ei and ie w	
	words are spelled cor	
	se indicates to student	s now well the lesson
was challenged.		
ADDROYTMAME COCM.		
APPROXIMATE COST:	Public Domain	
TITLE: Junior/Senio	or High Spelling Progra	ms
SUBJECT: Spelling		GRADE LEVEL: 7-12
SYSTEM: Commodore/PI	ET 'Disk)	
COMMODOTO	2200	
DESCRIPTION: Each su	pelling program consist	s of 60 words. The
		f five words. Any one of
	may be spelled incorrec	
		. After a second incorrect
	ter identifies the cor	
it correctly.		
APPROXIMATE COST:		
	Total Pakcage\$180.00	l
TITLE:		
		CDADE TELEVI
SUBJECT:		GRADE LEVEL:
SYSTEM:		
DESCRIPTION:		
APPROXIMATE COST:		